

APPENDIX B

DETAILED PROJECT COST ESTIMATES

Project ID	Length (ft)	Diameter (in) or Facility Type	Construction Cost	Mark-up Costs	Capital Project Cost
PDLA - A					
Project AAAA	900	24	\$176,731	\$161,048	\$337,780
Project AAA	550	36	\$119,138	\$110,763	\$229,901
Project AC	1000 & 275	36 & 18	\$468,663	\$370,598	\$839,262
Project AFA	2000	Channel	\$27,747	\$65,377	\$93,124
Project AFB	3600	Channel	\$55,520	\$87,702	\$143,222
					\$1,643,289
PDLA - B					
Project B	3000	Channel	\$902,270	\$738,144	\$1,640,414
Project BB-1	1100	18	\$138,075	\$123,692	\$261,767
Project BB-2	1700	36	\$320,726	\$258,394	\$579,120
Project BCA	2900	24	\$476,536	\$383,506	\$860,042
Project BCB	925	30	\$215,732	\$176,652	\$392,385
Project BCC	925	36	\$216,583	\$179,032	\$395,615
Project BFA	1600	42	\$418,521	\$342,113	\$760,634
Project BFB-U	3800	Channel	\$63,146	\$65,025	\$128,171
Project BFB-L	800	48	\$192,293	\$178,021	\$370,313
Project BF1	N/A	Sed Basin	\$206,044	\$174,894	\$380,938
Project BJ	270 & N/A	RCB & Sed Basin	\$250,896	\$204,834	\$455,730
Project BJB	N/A	Outlet Structure	\$73,491	\$71,258	\$144,750
Project BL-U	800	39	\$161,971	\$151,804	\$313,775
Project BL-L	20 & 125	90 & Bridge	\$480,638	\$310,417	\$791,055
Project BM	260	RCB	\$336,120	\$188,850	\$524,970
Project BNB	3600	84	\$1,758,011	\$1,446,003	\$3,204,014
Project BN	3600	Channel	\$171,807	\$189,166	\$360,973
Project BQ	800	Spot Enhance	\$61,393	\$59,045	\$120,438
Project BP	N/A & 28	Sed Basin & RCB	\$57,106	\$57,738	\$114,844
					\$11,799,947
PDLA - C					
Project C1	100	BRIDGE	\$1,424,013	\$1,670,184	\$3,094,197
Project C2	90	RCB	\$203,490	\$432,693	\$636,183
Project CA	600	Concrete Channel	\$186,308	\$335,273	\$521,581
					\$4,251,961
PDLA - D					
Project DBA	360	30	\$68,456	\$70,056	\$138,512
Project DBB	720	30	\$188,803	\$165,804	\$354,608
Project DFA	N/A	Treatment System	\$93,326	\$129,970	\$223,296
Project DQB	2500	36	\$293,896	\$251,928	\$545,824
Project DH	3111	Spot Enhance	\$111,754	\$115,310	\$227,065
Project DZ	100	RCB (2)	\$316,488	\$175,998	\$492,485
					\$1,981,789

Project Costs

Basin A



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION/ITEM DESCRIPTION

Project AAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project AAA													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 7200 lbs, 6'x 20'	6	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$696.00	\$116 / Day	\$0.00	\$0.00	\$696.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,196.00		\$0.00	\$0.00	\$1,196.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	6	Clf	\$2.34	\$12.87	\$3.06	\$16.83	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$29.70
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	427	Sqyd	\$4.76	\$2,032.52	\$0.00	\$0.00	\$3.20	\$1,364.57	\$7.95 / Sqyd	\$0.00	\$0.00	\$3,397.09
	Asphalt disposal - hauling and disposal fee, 4" thick	427	Sqyd	\$0.89	\$380.03	\$4.30	\$1,836.10	\$1.20	\$510.27	\$6.38 / Sqyd	\$0.00	\$0.00	\$2,726.40
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	1112	Lnft	\$0.78	\$867.36	\$0.15	\$166.80	\$0.40	\$450.02	\$1.33 / Lnft	\$0.00	\$0.00	\$1,484.18
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1112	Lnft	\$0.46	\$511.52	\$0.04	\$44.48	\$0.24	\$262.16	\$0.73 / Lnft	\$0.00	\$0.00	\$818.16
02310 - Fine grade													
	Fine grade under asphalt	427	Sqyd	\$0.77	\$328.79	\$0.00	\$0.00	\$0.16	\$70.03	\$0.93 / Sqyd	\$0.00	\$0.00	\$398.82
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction	853	Cuyd	\$0.71	\$605.63	\$0.00	\$0.00	\$1.17	\$999.78	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,605.41
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	143	Cuyd	\$7.64	\$1,092.52	\$20.73	\$2,964.39	\$1.73	\$247.50	\$30.1 / Cuyd	\$0.00	\$0.00	\$4,304.41
02360 - Compaction													
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	853	Cuyd	\$1.76	\$1,501.28	\$0.00	\$0.00	\$0.47	\$396.79	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,898.07
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	61	Cuyd	\$1.76	\$107.54	\$0.00	\$0.00	\$0.47	\$28.42	\$2.22 / Cuyd	\$0.00	\$0.00	\$135.96
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	853	Cuyd	\$1.76	\$1,501.28	\$0.00	\$0.00	\$0.47	\$396.79	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,898.07
02450 - Excavating, trench													
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1140	Cuyd	\$1.73	\$1,972.20	\$0.00	\$0.00	\$1.30	\$1,486.06	\$3.03 / Cuyd	\$0.00	\$0.00	\$3,458.26
02460 - Hauling													
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	376	Cuyd	\$7.18	\$2,701.12	\$3.00	\$1,128.60	\$15.45	\$5,810.89	\$25.62 / Cuyd	\$0.00	\$0.00	\$9,640.61
	Loading Trucks, F.E. Loader, 3 C.Y..	376	Cuyd	\$0.66	\$248.29	\$0.00	\$0.00	\$1.13	\$426.45	\$1.79 / Cuyd	\$0.00	\$0.00	\$674.74
	Disposal fee	19	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,975.05	\$1,975.05
02490 - Erosion control													
	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.00
02570 - Catch basins or manholes													
	Cleanout	1	Each	\$926.00	\$926.00	\$1,300.00	\$1,300.00	\$226.00	\$226.00	\$2452 / Each	\$0.00	\$0.00	\$2,452.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	4	Each	\$534.28	\$2,137.12	\$471.57	\$1,886.28	\$0.00	\$0.00	\$1005.85 / Each	\$0.00	\$0.00	\$4,023.40
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	427	Sqyd	\$0.73	\$311.71	\$6.88	\$2,937.76	\$0.93	\$397.44	\$8.54 / Sqyd	\$0.00	\$0.00	\$3,646.91
02610 - Asphalt concrete pavement													

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	427	Sqyd	\$31.92	\$13,629.84	\$7.22	\$3,082.94	\$2.73	\$1,165.89	\$41.87 / Sqyd	\$0.00	\$0.00	\$17,878.67
	02640 - Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	550	Lnft	\$0.11	\$60.50	\$0.13	\$71.50	\$0.07	\$38.50	\$0.31 / Lnft	\$0.00	\$0.00	\$170.50
	02840 - Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	02900 - Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	11	Each	\$222.90	\$2,451.90	\$0.00	\$0.00	\$25.22	\$277.42	\$248.12 / Each	\$0.00	\$0.00	\$2,729.32
	SITE CONSTRUCTION Total				\$33,380.01		\$15,435.68		\$14,555.00		\$0.00	\$8,389.05	\$71,759.74
	15 - MECHANICAL												
	15090 - Pipe, drng&sewage, concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	550	Lnft	\$37.83	\$20,806.50	\$32.80	\$18,040.00	\$12.50	\$6,875.00	\$83.13 / Lnft	\$0.00	\$0.00	\$45,721.50
	Piping, water dist, conc pipe, gasket, 36" dia	55	Each	\$2.85	\$156.75	\$5.53	\$304.15	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$460.90
	MECHANICAL Total				\$20,963.25		\$18,344.15		\$6,875.00		\$0.00	\$0.00	\$46,182.40
	Project AAA Total	550	LF		\$54,343.26		\$33,779.83		\$22,626.00		\$0.00	\$8,389.05	\$119,138.14
	Grand Total				\$54,343.26		\$33,779.83		\$22,626.00		\$0.00	\$8,389.05	\$119,138.14

Category	Percent	Amount
Labor	45.61%	\$54,343
Material	28.35%	\$33,780
Equipment	18.99%	\$22,626
Subcontractor	0.00%	\$0
Other	7.04%	\$8,389
Net Costs		\$119,138
Labor Mark-up	18.00%	\$9,782
Material Mark-up	15.00%	\$5,067
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,394
Sales tax (material)	7.75%	\$2,618
Sales tax (equipment)	7.75%	\$1,754
Material Shipping & Handling	2.50%	\$844
Worker's Travel/Subsistence	0.10%	\$54
Subtotal		\$142,651
Contractor General Conditions	12.00%	\$17,118
Subtotal		\$159,769
Earthquake Insurance	0.10%	\$160
Subtotal		\$159,929
Construction Contingency	25.00%	\$39,982
Subtotal		\$199,911
Bldg Risk, Liability Auto Ins.	2.00%	\$3,998
Subtotal		\$203,909
Performance Bond	1.00%	\$2,039
Payment Bond	1.00%	\$2,039
Subtotal		\$207,988
Engineering Fee	10.00%	\$11,914
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$229,901



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Mathews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AAAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project AAAA													
01 - GENERAL REQUIREMENTS													
	Trench box, 7200 lbs, 6'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$1,392.00	\$116 / Day	\$0.00	\$0.00	\$1,392.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,892.00		\$0.00	\$0.00	\$1,892.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$48.60
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	600	Sqyd	\$4.76	\$2,856.00	\$0.00	\$0.00	\$3.20	\$1,917.43	\$7.95 / Sqyd	\$0.00	\$0.00	\$4,773.43
	Asphalt disposal - hauling and disposal fee, 4" thick	600	Sqyd	\$0.89	\$534.00	\$4.30	\$2,580.00	\$1.20	\$717.01	\$6.38 / Sqyd	\$0.00	\$0.00	\$3,831.01
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	1812	Lnft	\$0.78	\$1,413.36	\$0.15	\$271.80	\$0.40	\$733.31	\$1.33 / Lnft	\$0.00	\$0.00	\$2,418.47
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1812	Lnft	\$0.46	\$833.52	\$0.04	\$72.48	\$0.24	\$427.19	\$0.73 / Lnft	\$0.00	\$0.00	\$1,333.19
02310 - Fine grade													
	Fine grade under asphalt	600	Sqyd	\$0.77	\$462.00	\$0.00	\$0.00	\$0.16	\$98.41	\$0.93 / Sqyd	\$0.00	\$0.00	\$560.41
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	421	Cuyd	\$7.64	\$3,215.68	\$20.73	\$8,725.26	\$1.73	\$728.48	\$30.1 / Cuyd	\$0.00	\$0.00	\$12,669.41
	Import backfill, crushed stone 3/4" to 1/2"	444	Cuyd	\$6.18	\$2,746.39	\$20.73	\$9,212.41	\$1.51	\$669.04	\$28.41 / Cuyd	\$0.00	\$0.00	\$12,627.85
02360 - Compaction													
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	67	Cuyd	\$1.76	\$117.39	\$0.00	\$0.00	\$0.47	\$31.03	\$2.22 / Cuyd	\$0.00	\$0.00	\$148.42
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	362	Cuyd	\$1.76	\$637.12	\$0.00	\$0.00	\$0.47	\$168.39	\$2.22 / Cuyd	\$0.00	\$0.00	\$805.51
02450 - Excavating, trench													
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	867	Cuyd	\$1.73	\$1,499.91	\$0.00	\$0.00	\$1.30	\$1,130.19	\$3.03 / Cuyd	\$0.00	\$0.00	\$2,630.10
02460 - Hauling													
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI	867	Cuyd	\$7.18	\$6,225.06	\$3.00	\$2,601.00	\$15.45	\$13,392.00	\$25.62 / Cuyd	\$0.00	\$0.00	\$22,218.06
	Loading Trucks, F.E. Loader, 3 C.Y..	867	Cuyd	\$0.66	\$572.22	\$0.00	\$0.00	\$1.13	\$982.80	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,555.02
	Disposal fee	43	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$4,551.75	\$4,551.75
02490 - Erosion control													
	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.00
02570 - Catch basins or manholes													
	CB or manholes, conc, precast, 4' ID, 6' deep	3	Each	\$497.85	\$1,493.55	\$482.94	\$1,448.82	\$135.67	\$407.00	\$1116.45 / Each	\$0.00	\$0.00	\$3,349.37
	Junction structure manholes, concrete, precast, 8' I.D., 8' deep,	1	Each	\$1,159.50	\$1,159.50	\$3,130.18	\$3,130.18	\$282.00	\$282.00	\$4571.68 / Each	\$0.00	\$0.00	\$4,571.68
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3	Each	\$143.28	\$429.84	\$177.27	\$531.81	\$32.50	\$97.50	\$353.05 / Each	\$0.00	\$0.00	\$1,059.15
	Cleanout	2	Each	\$926.00	\$1,852.00	\$1,300.00	\$2,600.00	\$226.00	\$452.00	\$2452 / Each	\$0.00	\$0.00	\$4,904.00
	CB or manholes, conc, slab tops, precast, 8" thick, 8' dia	1	Each	\$143.28	\$143.28	\$312.49	\$312.49	\$32.50	\$32.50	\$488.27 / Each	\$0.00	\$0.00	\$488.27
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$146.95	\$440.85	\$179.54	\$538.62	\$50.00	\$150.00	\$376.49 / Each	\$0.00	\$0.00	\$1,129.47
	Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb.	1	Each	\$309.20	\$309.20	\$522.71	\$522.71	\$75.00	\$75.00	\$906.91 / Each	\$0.00	\$0.00	\$906.91
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$132.85	\$398.55	\$61.00	\$183.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$581.55
	CB or manholes, inverts, triple channel, conc	1	Each	\$165.52	\$165.52	\$69.88	\$69.88	\$0.00	\$0.00	\$235.4 / Each	\$0.00	\$0.00	\$235.40
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	6	Each	\$6.62	\$39.72	\$14.77	\$88.62	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$128.34
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	600	Sqyd	\$0.73	\$438.00	\$6.88	\$4,128.00	\$0.93	\$558.46	\$8.54 / Sqyd	\$0.00	\$0.00	\$5,124.46

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02610 - Asphalt concrete pavement</i>													
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	600	Sqyd	\$31.92	\$19,152.00	\$7.22	\$4,332.00	\$2.73	\$1,638.25	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,122.25
<i>02640 - Lines on pav't</i>													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	900	Lnft	\$0.11	\$99.00	\$0.13	\$117.00	\$0.07	\$63.00	\$0.31 / Lnft	\$0.00	\$0.00	\$279.00
<i>02840 - Landscaping</i>													
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
<i>02900 - Pot Holing</i>													
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	SITE CONSTRUCTION Total				\$51,266.92		\$41,493.62		\$25,204.96		\$0.00	\$10,965.75	\$128,931.25
<i>03 - CONCRETE</i>													
<i>03330 - Patching concrete</i>													
	Pre-cast concrete wall penetration, non-shrink grout, 24" hole	8	Each	\$68.53	\$548.24	\$90.00	\$720.00	\$0.00	\$0.00	\$158.53 / Each	\$0.00	\$0.00	\$1,268.24
	CONCRETE Total				\$548.24		\$720.00		\$0.00		\$0.00	\$0.00	\$1,268.24
<i>15 - MECHANICAL</i>													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	900	Lnft	\$22.34	\$20,106.00	\$24.00	\$21,600.00	\$2.60	\$2,340.00	\$48.94 / Lnft	\$0.00	\$0.00	\$44,046.00
	Piping, water dist, conc pipe, gasket, 24" dia	90	Each	\$2.85	\$256.50	\$3.75	\$337.50	\$0.00	\$0.00	\$6.6 / Each	\$0.00	\$0.00	\$594.00
	MECHANICAL Total				\$20,362.50		\$21,937.50		\$2,340.00		\$0.00	\$0.00	\$44,640.00
	Project AAAA Total				\$72,177.66		\$64,151.12		\$29,436.96		\$0.00	\$10,965.75	\$176,731.49
	Grand Total				\$72,177.66		\$64,151.12		\$29,436.96		\$0.00	\$10,965.75	\$176,731.49

Category	Percent	Amount
Labor	40.84%	\$72,178
Material	36.30%	\$64,151
Equipment	16.66%	\$29,437
Subcontractor	0.00%	\$0
Other	6.20%	\$10,966
Net Costs		\$176,731
Labor Mark-up	18.00%	\$12,992
Material Mark-up	15.00%	\$9,623
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,416
Sales tax (material)	7.75%	\$4,972
Sales tax (equipment)	7.75%	\$2,281
Material Shipping & Handling	2.50%	\$1,604
Worker's Travel/Subsistence	0.10%	\$72
Subtotal		\$212,691
Contractor General Conditions	12.00%	\$25,523
Subtotal		\$238,214
Earthquake Insurance	0.10%	\$238
Subtotal		\$238,452
Construction Contingency	25.00%	\$59,613
Subtotal		\$298,065
Bldg Risk, Liability Auto Ins.	2.00%	\$5,961
Subtotal		\$304,026
Performance Bond	1.00%	\$3,040
Payment Bond	1.00%	\$3,040
Subtotal		\$310,107
Engineering Fee	10.00%	\$17,673
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$337,780



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Mathews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AC - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project AC													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,635.00		\$0.00	\$0.00	\$2,635.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	13	Clf	\$2.34	\$29.84	\$3.06	\$39.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$68.85
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	436	Sqyd	\$4.76	\$2,074.55	\$0.00	\$0.00	\$3.20	\$1,392.79	\$7.95 / Sqyd	\$0.00	\$0.00	\$3,467.34
	Asphalt disposal - hauling and disposal fee, 4" thick	436	Sqyd	\$0.89	\$387.89	\$4.30	\$1,874.07	\$1.20	\$520.83	\$6.38 / Sqyd	\$0.00	\$0.00	\$2,782.78
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	2280	Lnft	\$0.78	\$1,778.40	\$0.15	\$342.00	\$0.40	\$922.71	\$1.33 / Lnft	\$0.00	\$0.00	\$3,043.11
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2280	Lnft	\$0.46	\$1,048.80	\$0.04	\$91.20	\$0.24	\$537.53	\$0.73 / Lnft	\$0.00	\$0.00	\$1,677.53
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1568	Cuyd	\$0.71	\$1,113.21	\$0.00	\$0.00	\$1.17	\$1,837.70	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,950.91
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	391	Cuyd	\$0.71	\$277.61	\$0.00	\$0.00	\$1.17	\$458.28	\$1.88 / Cuyd	\$0.00	\$0.00	\$735.89
02340 - Bedding													
				\$7.64	\$7,349.00	\$20.73	\$19,938.00		\$1,665.00				\$28,952.00
	Bedding, crushed stone 3/4" to 1/2"	962	Cuyd	\$7.64	\$7,348.15	\$20.73	\$19,938.11	\$1.73	\$1,664.65	\$30.1 / Cuyd	\$0.00	\$0.00	\$28,950.92
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, bedding	827	Cuyd	\$1.76	\$1,455.70	\$0.00	\$0.00	\$0.47	\$384.74	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,840.44
	Compaction, trench, walk behind, vib. plate, subgrade	129	Cuyd	\$1.76	\$226.86	\$0.00	\$0.00	\$0.47	\$59.96	\$2.22 / Cuyd	\$0.00	\$0.00	\$286.82
	Compaction, trench, walk behind, vib. plate, backfill	1411	Cuyd	\$1.76	\$2,483.54	\$0.00	\$0.00	\$0.47	\$656.40	\$2.22 / Cuyd	\$0.00	\$0.00	\$3,139.94
	Compaction, struct. or trench, walk behind, vib. plate subgrade	111	Cuyd	\$1.76	\$195.36	\$0.00	\$0.00	\$0.47	\$51.63	\$2.22 / Cuyd	\$0.00	\$0.00	\$246.99
	Compaction, struct. or trench, walk behind, vib. plate bedding	167	Cuyd	\$1.76	\$293.92	\$0.00	\$0.00	\$0.47	\$77.68	\$2.22 / Cuyd	\$0.00	\$0.00	\$371.60
	Compaction, struct. or trench, walk behind, vib. plate backfill channel	391	Cuyd	\$1.76	\$688.16	\$0.00	\$0.00	\$0.47	\$181.88	\$2.22 / Cuyd	\$0.00	\$0.00	\$870.04
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	890	Cuyd	\$4.67	\$4,156.30	\$0.00	\$0.00	\$6.13	\$5,458.00	\$10.8 / Cuyd	\$0.00	\$0.00	\$9,614.30
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	2518	Cuyd	\$1.73	\$4,356.31	\$0.00	\$0.00	\$1.30	\$3,282.50	\$3.03 / Cuyd	\$0.00	\$0.00	\$7,638.81
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1580	Cuyd	\$5.41	\$8,545.64	\$0.00	\$0.00	\$9.45	\$14,930.72	\$14.86 / Cuyd	\$0.00	\$0.00	\$23,476.36
	Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr,	499	Cuyd	\$5.41	\$2,699.59	\$0.00	\$0.00	\$9.45	\$4,716.66	\$14.86 / Cuyd	\$0.00	\$0.00	\$7,416.25
	Loading Trucks, F.E. Loader, 3 C.Y..	1580	Cuyd	\$0.66	\$1,042.54	\$0.00	\$0.00	\$1.13	\$1,790.57	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,833.11
	Loading Trucks, F.E. Loader, 3 C.Y... channel	499	Cuyd	\$0.66	\$329.34	\$0.00	\$0.00	\$1.13	\$566.00	\$1.79 / Cuyd	\$0.00	\$0.00	\$895.34
02570 - Catch basins or manholes													
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	6	Each	\$764.16	\$4,584.96	\$1,079.50	\$6,477.00	\$173.20	\$1,039.20	\$2016.86 / Each	\$0.00	\$0.00	\$12,101.16
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	436	Sqyd	\$31.92	\$13,911.69	\$7.22	\$3,146.69	\$2.73	\$1,190.00	\$41.87 / Sqyd	\$0.00	\$0.00	\$18,248.39

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	SITE CONSTRUCTION Total				\$66,377.35		\$51,846.09		\$43,385.44		\$0.00	\$0.00	\$161,608.88
03 - CONCRETE													
03090 - Forms place, slab grade													
	Forms in place, SOG, edge forms, 7" to 12" high, wood, channel	1216	Sfca	\$3.47	\$4,219.52	\$2.81	\$3,416.96	\$0.00	\$0.00	\$6.28 / Sfca	\$0.00	\$0.00	\$7,636.48
03110 - Forms in place, walls													
	Forms in place, walls, job built plyform, to 8' high, channel	2400	Sfca	\$6.35	\$15,240.00	\$3.25	\$7,800.00	\$0.00	\$0.00	\$9.6 / Sfca	\$0.00	\$0.00	\$23,040.00
03140 - Welded wire fabric													
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	54	Csf	\$36.61	\$1,976.94	\$29.41	\$1,588.14	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$3,565.08
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	12	Csf	\$36.61	\$439.32	\$29.41	\$352.92	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$792.24
03150 - Concrete, ready mix													
	Headwall	195	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$146,250.00	\$146,250.00
	Concrete, ready mix, regular weight, 4000 psi	104	Cuyd	\$0.00	\$0.00	\$120.00	\$12,480.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$12,480.00
03170 - Placing concrete													
	Placing conc, incl vib, slab on grade, pumped, channel	59	Cuyd	\$22.62	\$1,334.58	\$0.00	\$0.00	\$7.24	\$427.00	\$29.85 / Cuyd	\$0.00	\$0.00	\$1,761.58
	Placing conc, incl vib, walls, pumped, channel	45	Cuyd	\$29.41	\$1,323.45	\$0.00	\$0.00	\$9.42	\$424.00	\$38.83 / Cuyd	\$0.00	\$0.00	\$1,747.45
03180 - Finishing floors													
	Finishing slabs, break ties, forms & patch voids	1216	Sqft	\$1.04	\$1,264.64	\$0.03	\$36.48	\$0.00	\$0.00	\$1.07 / Sqft	\$0.00	\$0.00	\$1,301.12
	Finishing floors, monolithic, screed, float, & hand trowel, channel	4800	Sqft	\$0.55	\$2,640.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.55 / Sqft	\$0.00	\$0.00	\$2,640.00
03190 - Finishing walls													
	Finishing slabs, break ties, forms & patch voids	2400	Sqft	\$1.04	\$2,496.00	\$0.03	\$72.00	\$0.00	\$0.00	\$1.07 / Sqft	\$0.00	\$0.00	\$2,568.00
	Finishing walls, carborundum rub, wet rub	1200	Sqft	\$1.90	\$2,280.00	\$0.03	\$36.00	\$0.00	\$0.00	\$1.93 / Sqft	\$0.00	\$0.00	\$2,316.00
	CONCRETE Total				\$33,214.45		\$25,782.50		\$851.00		\$0.00	\$146,250.00	\$206,097.95
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	275	Lnft	\$17.19	\$4,727.25	\$16.30	\$4,482.50	\$2.00	\$550.00	\$35.49 / Lnft	\$0.00	\$0.00	\$9,759.75
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1000	Lnft	\$37.83	\$37,830.00	\$32.80	\$32,800.00	\$12.50	\$12,500.00	\$83.13 / Lnft	\$0.00	\$0.00	\$83,130.00
15395 - Cleanouts													
	Cleanouts, flr type, rnd top, xtra hvy dty, 36" pipe size	3	Each	\$719.92	\$2,159.76	\$1,090.65	\$3,271.95	\$0.00	\$0.00	\$1810.57 / Each	\$0.00	\$0.00	\$5,431.71
	MECHANICAL Total				\$44,717.01		\$40,554.45		\$13,050.00		\$0.00	\$0.00	\$98,321.46
	Project AC Total				\$144,308.81		\$118,183.04		\$59,921.44		\$0.00	\$146,250.00	\$468,663.29
	Grand Total				\$144,308.81		\$118,183.04		\$59,921.44		\$0.00	\$146,250.00	\$468,663.29

Category	Percent	Amount
Labor	30.79%	\$144,309
Material	25.22%	\$118,183
Equipment	12.79%	\$59,921
Subcontractor	0.00%	\$0
Other	31.21%	\$146,250
Net Costs		\$468,663
Labor Mark-up	18.00%	\$25,976
Material Mark-up	15.00%	\$17,727
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,988
Sales tax (material)	7.75%	\$9,159
Sales tax (equipment)	7.75%	\$4,644
Material Shipping & Handling	2.50%	\$2,955
Worker's Travel/Subsistence	0.10%	\$144
Subtotal		\$538,257
Contractor General Conditions	12.00%	\$64,591
Subtotal		\$602,847
Earthquake Insurance	0.10%	\$603
Subtotal		\$603,450
Construction Contingency	20.00%	\$120,690
Subtotal		\$724,140
Bldg Risk, Liability Auto Ins.	2.00%	\$14,483
Subtotal		\$738,623
Performance Bond	1.00%	\$7,386
Payment Bond	1.00%	\$7,386
Subtotal		\$753,395
Engineering Fee	10.00%	\$46,866
Environmental Permitting (Lump Sum)	-	\$39,000
Total Estimate		\$839,262



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	11/14/1005
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AFA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project AFA													
02 - SITE CONSTRUCTION													
02210 - Clear and grub													
	Clear & grub, brush, including stumps	0	Acre	\$1,598.62	\$639.45	\$0.00	\$0.00	\$3,351.72	\$1,340.69	\$4950.34 / Acre	\$0.00	\$0.00	\$1,980.14
02420 - Excavating													
	Excavation, self prop scraper, 14 CY 1/4 push dozer	500	Cuyd	\$1.15	\$575.00	\$0.00	\$0.00	\$4.75	\$2,375.47	\$5.9 / Cuyd	\$0.00	\$0.00	\$2,950.47
02360 - Compaction													
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	593	Cuyd	\$1.76	\$1,043.68	\$0.00	\$0.00	\$0.47	\$275.85	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,319.53
02460 - Hauling													
	Fill, spread dumped material, by dozer, no compaction	593	Cuyd	\$1.34	\$794.62	\$0.00	\$0.00	\$2.19	\$1,299.94	\$3.53 / Cuyd	\$0.00	\$0.00	\$2,094.56
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.29	\$477.34	\$1.71	\$2,814.66	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$3,292.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2,456.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$10,321.09		\$7,063.66		\$7,747.95		\$0.00	\$2,614.00	\$27,746.70
	Project AFA Total				\$10,321.09		\$7,063.66		\$7,747.95		\$0.00	\$2,614.00	\$27,746.70
	Grand Total				\$10,321.09		\$7,063.66		\$7,747.95		\$0.00	\$2,614.00	\$27,746.70

Category	Percent	Amount
Labor	37.20%	\$10,321
Material	25.46%	\$7,064
Equipment	27.92%	\$7,748
Subcontractor	0.00%	\$0
Other	9.42%	\$2,614
Net Costs		\$27,747
Labor Mark-up	18.00%	\$1,858
Material Mark-up	15.00%	\$1,060
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,162
Sales tax (material)	7.75%	\$547
Sales tax (equipment)	7.75%	\$600
Material Shipping & Handling	2.50%	\$177
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$33,161
Contractor General Conditions	12.00%	\$3,979
Subtotal		\$37,140
Earthquake Insurance	0.10%	\$37
Subtotal		\$37,178
Construction Contingency	25.00%	\$9,294
Subtotal		\$46,472
Bldg Risk, Liability Auto Ins.	2.00%	\$929
Subtotal		\$47,401
Performance Bond	1.00%	\$474
Payment Bond	1.00%	\$474
Subtotal		\$48,349
Engineering Fee	10.00%	\$2,775
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$93,124



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	11/14/2005
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AFB - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project AFB													
02 - SITE CONSTRUCTION													
02210 - Clear and grub													
	Clear & grub, brush, including stumps	1	Acre	\$1,598.62	\$959.17	\$0.00	\$0.00	\$3,351.72	\$2,011.03	\$4950.34 / Acre	\$0.00	\$0.00	\$2,970.21
02420 - Excavating													
	Excavation, self prop scraper, 14 CY 1/4 push dozer	1500	Cuyd	\$1.15	\$1,725.00	\$0.00	\$0.00	\$4.75	\$7,126.42	\$5.9 / Cuyd	\$0.00	\$0.00	\$8,851.42
02360 - Compaction													
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	1650	Cuyd	\$1.76	\$2,904.00	\$0.00	\$0.00	\$0.47	\$767.53	\$2.22 / Cuyd	\$0.00	\$0.00	\$3,671.53
02460 - Hauling													
	Disposal fee	53	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$5,601.75	\$5,601.75
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	1067	Cuyd	\$0.97	\$1,034.99	\$0.00	\$0.00	\$2.09	\$2,233.05	\$3.06 / Cuyd	\$0.00	\$0.00	\$3,268.04
	Loading Trucks, F.E. Loader, 3 C.Y., clear & grub	1067	Cuyd	\$0.52	\$554.84	\$0.00	\$0.00	\$0.99	\$1,053.49	\$1.5 / Cuyd	\$0.00	\$0.00	\$1,608.33
	Fill, spread dumped material, by dozer, no compaction	1650	Cuyd	\$1.34	\$2,211.00	\$0.00	\$0.00	\$2.19	\$3,617.04	\$3.53 / Cuyd	\$0.00	\$0.00	\$5,828.04
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.29	\$477.34	\$1.71	\$2,814.66	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$3,292.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	132	Cuyd	\$67.91	\$8,964.12	\$42.49	\$5,608.68	\$24.56	\$3,241.92	\$134.96 / Cuyd	\$0.00	\$0.00	\$17,814.72
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04
	Project AFB Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04
	Grand Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04

Category	Percent	Amount
Labor	33.92%	\$18,830
Material	15.17%	\$8,423
Equipment	36.11%	\$20,050
Subcontractor	0.00%	\$0
Other	14.80%	\$8,216
Net Costs		\$55,520
Labor Mark-up	18.00%	\$3,389
Material Mark-up	15.00%	\$1,264
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,008
Sales tax (material)	7.75%	\$653
Sales tax (equipment)	7.75%	\$1,554
Material Shipping & Handling	2.50%	\$211
Worker's Travel/Subsistence	0.10%	\$19
Subtotal		\$65,617
Contractor General Conditions	12.00%	\$7,874
Subtotal		\$73,491
Earthquake Insurance	0.10%	\$73
Subtotal		\$73,564
Construction Contingency	25.00%	\$18,391
Subtotal		\$91,955
Bldg Risk, Liability Auto Ins.	2.00%	\$1,839
Subtotal		\$93,794
Performance Bond	1.00%	\$938
Payment Bond	1.00%	\$938
Subtotal		\$95,670
Engineering Fee	10.00%	\$5,552
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$143,222

Project Costs

Basin B



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project B - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, conc7" to 24" thick, rod reinforced	25	Cuyd	\$83.33	\$2,083.25	\$0.00	\$0.00	\$55.96	\$1,398.91	\$139.28 / Cuyd	\$0.00	\$0.00	\$3,482.16
02210 - Clear and grub													
	Clear & grub, brush, including stumps	2	Acre	\$1,598.62	\$3,197.24	\$0.00	\$0.00	\$3,351.72	\$6,703.45	\$4950.34 / Acre	\$0.00	\$0.00	\$9,900.69
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	36000	Cuyd	\$1.46	\$52,560.00	\$0.00	\$0.00	\$4.58	\$164,772.00	\$6.03 / Cuyd	\$0.00	\$0.00	\$217,332.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	1000	Cuyd	\$1.46	\$1,460.00	\$0.00	\$0.00	\$4.58	\$4,577.00	\$6.03 / Cuyd	\$0.00	\$0.00	\$6,037.00
02430 - Fill													
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$1.34	\$1,876.00	\$0.00	\$0.00	\$2.19	\$3,069.00	\$3.53 / Cuyd	\$0.00	\$0.00	\$4,945.00
02460 - Hauling													
	Disposal fee	2	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$210.00	\$210.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	25	Cuyd	\$6.61	\$165.25	\$0.00	\$0.00	\$9.45	\$236.31	\$16.06 / Cuyd	\$0.00	\$0.00	\$401.56
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	30000	Cuyd	\$5.41	\$162,300.00	\$0.00	\$0.00	\$9.45	\$283,566.47	\$14.86 / Cuyd	\$0.00	\$0.00	\$445,866.47
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2456	Cuyd	\$5.41	\$13,286.96	\$0.00	\$0.00	\$9.45	\$23,214.64	\$14.86 / Cuyd	\$0.00	\$0.00	\$36,501.60
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1400	Cuyd	\$5.41	\$7,574.00	\$0.00	\$0.00	\$9.45	\$13,233.10	\$14.86 / Cuyd	\$0.00	\$0.00	\$20,807.10
	Loading Trucks, F.E. Loader, 3 C.Y..	26000	Cuyd	\$0.66	\$17,160.00	\$0.00	\$0.00	\$1.13	\$29,472.54	\$1.79 / Cuyd	\$0.00	\$0.00	\$46,632.54
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	23	Cuyd	\$0.80	\$18.40	\$0.00	\$0.00	\$2.17	\$49.91	\$2.97 / Cuyd	\$0.00	\$0.00	\$68.31
	Loading Trucks, F.E. Loader, 3 C.Y..	1400	Cuyd	\$0.66	\$924.00	\$0.00	\$0.00	\$1.13	\$1,586.98	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,510.98
	Loading Trucks, F.E. Loader, 3 C.Y..	2456	Cuyd	\$0.66	\$1,620.96	\$0.00	\$0.00	\$1.13	\$2,784.02	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,404.98
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	507	Sqyd	\$0.29	\$147.03	\$1.71	\$866.97	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$1,014.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	618	Cuyd	\$67.91	\$41,968.38	\$42.49	\$26,258.82	\$24.56	\$15,178.08	\$134.96 / Cuyd	\$0.00	\$0.00	\$83,405.28
	SITE CONSTRUCTION Total				\$306,341.47		\$27,125.79		\$549,842.41		\$0.00	\$210.00	\$883,519.67
03 - CONCRETE													
03150 - Concrete, ready mix													
	Retaining wall	25	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$18,750.00	\$18,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$18,750.00	\$18,750.00
	Project B Total				\$306,341.47		\$27,125.79		\$549,842.41		\$0.00	\$18,960.00	\$902,269.67
	Grand Total				\$306,341.47		\$27,125.79		\$549,842.41		\$0.00	\$18,960.00	\$902,269.67

Category	Percent	Amount
Labor	33.95%	\$306,341
Material	3.01%	\$27,126
Equipment	60.94%	\$549,842
Subcontractor	0.00%	\$0
Other	2.10%	\$18,960
Net Costs		\$902,270
Labor Mark-up	18.00%	\$55,141
Material Mark-up	15.00%	\$4,069
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$82,476
Sales tax (material)	7.75%	\$2,102
Sales tax (equipment)	7.75%	\$42,613
Material Shipping & Handling	2.50%	\$678
Worker's Travel/Subsistence	0.10%	\$306
Subtotal		\$1,089,656
Contractor General Conditions	12.00%	\$130,759
Subtotal		\$1,220,415
Earthquake Insurance	0.10%	\$1,220
Subtotal		\$1,221,635
Construction Contingency	20.00%	\$244,327
Subtotal		\$1,465,962
Bldg Risk, Liability Auto Ins.	2.00%	\$29,319
Subtotal		\$1,495,281
Performance Bond	1.00%	\$14,953
Payment Bond	1.00%	\$14,953
Subtotal		\$1,525,187
Engineering Fee	10.00%	\$90,227
Environmental Permitting (Lump Sum)	-	\$25,000
Total Estimate		\$1,640,414



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	5/24/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	11/16/2006

PROJECT LOCATION / PROCESS AREA

Project BB-1

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BB-1													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 7200 lbs, 6'x 20'	25	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$2,900.00	\$116 / Day	\$0.00	\$0.00	\$2,900.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,400.00		\$0.00	\$0.00	\$3,400.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	11	Clf	\$2.34	\$25.74	\$3.06	\$33.66	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$59.40
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	672	Sqyd	\$4.76	\$3,198.72	\$0.00	\$0.00	\$3.20	\$2,147.52	\$7.95 / Sqyd	\$0.00	\$0.00	\$5,346.24
	Asphalt disposal - hauling and disposal fee, 4" thick	672	Sqyd	\$0.89	\$598.08	\$4.30	\$2,889.60	\$1.20	\$803.05	\$6.38 / Sqyd	\$0.00	\$0.00	\$4,290.73
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	2211	Lnft	\$0.78	\$1,724.58	\$0.15	\$331.65	\$0.40	\$894.79	\$1.33 / Lnft	\$0.00	\$0.00	\$2,951.02
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2211	Lnft	\$0.46	\$1,017.06	\$0.04	\$88.44	\$0.24	\$521.26	\$0.73 / Lnft	\$0.00	\$0.00	\$1,626.76
02310 - Fine grade													
	Fine grade, fine grade granular base for sidewalks and bikeways	100	Sqyd	\$0.96	\$96.00	\$0.00	\$0.00	\$0.16	\$16.40	\$1.12 / Sqyd	\$0.00	\$0.00	\$112.40
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction	1160	Cuyd	\$0.71	\$823.60	\$0.00	\$0.00	\$1.17	\$1,359.61	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,183.21
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	224	Cuyd	\$7.64	\$1,711.36	\$20.73	\$4,643.52	\$1.73	\$387.69	\$30.1 / Cuyd	\$0.00	\$0.00	\$6,742.57
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	1160	Cuyd	\$1.76	\$2,041.60	\$0.00	\$0.00	\$0.47	\$539.60	\$2.22 / Cuyd	\$0.00	\$0.00	\$2,581.20
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1160	Cuyd	\$2.70	\$3,132.00	\$0.00	\$0.00	\$0.72	\$829.66	\$3.41 / Cuyd	\$0.00	\$0.00	\$3,961.66
02450 - Excavating, trench													
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1456	Cuyd	\$1.73	\$2,518.88	\$0.00	\$0.00	\$1.30	\$1,897.99	\$3.03 / Cuyd	\$0.00	\$0.00	\$4,416.87
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	296	Cuyd	\$5.41	\$1,601.36	\$0.00	\$0.00	\$9.45	\$2,797.86	\$14.86 / Cuyd	\$0.00	\$0.00	\$4,399.22
	Loading Trucks, F.E. Loader, 3 C.Y..	296	Cuyd	\$0.66	\$195.36	\$0.00	\$0.00	\$1.13	\$335.53	\$1.79 / Cuyd	\$0.00	\$0.00	\$530.89
	Disposal fee	15	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,575.00	\$1,575.00
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Cleanout	2	Each	\$926.00	\$1,852.00	\$1,300.00	\$2,600.00	\$226.00	\$452.00	\$2452 / Each	\$0.00	\$0.00	\$4,904.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	2	Each	\$534.28	\$1,068.56	\$471.57	\$943.14	\$0.00	\$0.00	\$1005.85 / Each	\$0.00	\$0.00	\$2,011.70
	Junction Structure	1	Each	\$619.52	\$619.52	\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	672	Sqyd	\$31.92	\$21,450.24	\$7.22	\$4,851.84	\$2.73	\$1,834.84	\$41.87 / Sqyd	\$0.00	\$0.00	\$28,136.92
02640 - Lines on pav't													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1100	Lnft	\$0.11	\$121.00	\$0.13	\$143.00	\$0.07	\$77.00	\$0.31 / Lnft	\$0.00	\$0.00	\$341.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 - Landscaping													
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - Pot Holing													
	Pot Holing - pipe lines	22	Each	\$222.90	\$4,903.80	\$0.00	\$0.00	\$28.21	\$620.71	\$251.11 / Each	\$0.00	\$0.00	\$5,524.51
	SITE CONSTRUCTION Total				\$48,699.46		\$21,524.85		\$15,515.52		\$0.00	\$9,067.00	\$94,806.83
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	1100	Lnft	\$17.19	\$18,909.00	\$16.30	\$17,930.00	\$2.00	\$2,200.00	\$35.49 / Lnft	\$0.00	\$0.00	\$39,039.00
	Piping, water dist, conc pipe, gasket, 18" dia	110	Each	\$2.85	\$313.50	\$4.69	\$515.90	\$0.00	\$0.00	\$7.54 / Each	\$0.00	\$0.00	\$829.40
	MECHANICAL Total				\$19,222.50		\$18,445.90		\$2,200.00		\$0.00	\$0.00	\$39,868.40
	Project BB-1 Total				\$67,921.96		\$39,970.75		\$21,115.52		\$0.00	\$9,067.00	\$138,075.23
	Grand Total				\$67,921.96		\$39,970.75		\$21,115.52		\$0.00	\$9,067.00	\$138,075.23

Category	Percent	Amount
Labor	49.19%	\$67,922
Material	28.95%	\$39,971
Equipment	15.29%	\$21,116
Subcontractor	0.00%	\$0
Other	6.57%	\$9,067
Net Costs		\$138,075
Labor Mark-up	18.00%	\$12,226
Material Mark-up	15.00%	\$5,996
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,167
Sales tax (material)	7.75%	\$3,098
Sales tax (equipment)	7.75%	\$1,636
Material Shipping & Handling	2.50%	\$999
Worker's Travel/Subsistence	0.10%	\$68
Subtotal		\$165,266
Contractor General Conditions	12.00%	\$19,832
Subtotal		\$185,097
Earthquake Insurance	0.10%	\$185
Subtotal		\$185,282
Construction Contingency	25.00%	\$46,321
Subtotal		\$231,603
Bldg Risk, Liability Auto Ins.	2.00%	\$4,632
Subtotal		\$236,235
Performance Bond	1.00%	\$2,362
Payment Bond	1.00%	\$2,362
Subtotal		\$240,960
Engineering Fee	10.00%	\$13,808
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$261,767



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	5/24/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	11/16/2006

PROJECT LOCATION / PROCESS AREA

Project BB-2

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BB-2													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 7200 lbs, 6'x 20'	23	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$2,668.00	\$116 / Day	\$0.00	\$0.00	\$2,668.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,168.00		\$0.00	\$0.00	\$3,168.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	17	Clf	\$2.34	\$39.78	\$3.06	\$52.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$91.80
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1322	Sqyd	\$4.76	\$6,292.72	\$0.00	\$0.00	\$3.20	\$4,224.74	\$7.95 / Sqyd	\$0.00	\$0.00	\$10,517.46
	Asphalt disposal - hauling and disposal fee, 4" thick	1322	Sqyd	\$0.89	\$1,176.58	\$4.30	\$5,684.60	\$1.20	\$1,579.82	\$6.38 / Sqyd	\$0.00	\$0.00	\$8,441.00
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	3414	Lnft	\$0.78	\$2,662.92	\$0.15	\$512.10	\$0.40	\$1,381.64	\$1.33 / Lnft	\$0.00	\$0.00	\$4,556.66
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3414	Lnft	\$0.46	\$1,570.44	\$0.04	\$136.56	\$0.24	\$804.88	\$0.73 / Lnft	\$0.00	\$0.00	\$2,511.88
02310 - Fine grade													
	Fine grade, fine grade granular base for sidewalks and bikeways	125	Sqyd	\$0.96	\$120.00	\$0.00	\$0.00	\$0.16	\$20.50	\$1.12 / Sqyd	\$0.00	\$0.00	\$140.50
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction	2640	Cuyd	\$0.71	\$1,874.40	\$0.00	\$0.00	\$1.17	\$3,094.29	\$1.88 / Cuyd	\$0.00	\$0.00	\$4,968.69
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	441	Cuyd	\$7.64	\$3,369.24	\$20.73	\$9,141.93	\$1.73	\$763.27	\$30.1 / Cuyd	\$0.00	\$0.00	\$13,274.44
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	2640	Cuyd	\$1.76	\$4,646.40	\$0.00	\$0.00	\$0.47	\$1,228.06	\$2.22 / Cuyd	\$0.00	\$0.00	\$5,874.46
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	2640	Cuyd	\$2.70	\$7,128.00	\$0.00	\$0.00	\$0.72	\$1,888.20	\$3.41 / Cuyd	\$0.00	\$0.00	\$9,016.20
02450 - Excavating, trench													
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	3526	Cuyd	\$1.73	\$6,099.98	\$0.00	\$0.00	\$1.30	\$4,596.36	\$3.03 / Cuyd	\$0.00	\$0.00	\$10,696.34
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	886	Cuyd	\$5.41	\$4,793.26	\$0.00	\$0.00	\$9.45	\$8,374.66	\$14.86 / Cuyd	\$0.00	\$0.00	\$13,167.92
	Loading Trucks, F.E. Loader, 3 C.Y..	886	Cuyd	\$0.66	\$584.76	\$0.00	\$0.00	\$1.13	\$1,004.33	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,589.09
	Disposal fee	43	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$4,515.00	\$4,515.00
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Cleanout	2	Each	\$926.00	\$1,852.00	\$1,300.00	\$2,600.00	\$226.00	\$452.00	\$2452 / Each	\$0.00	\$0.00	\$4,904.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	3	Each	\$534.28	\$1,602.84	\$471.57	\$1,414.71	\$0.00	\$0.00	\$1005.85 / Each	\$0.00	\$0.00	\$3,017.55
	Junction Structure	1	Each	\$619.52	\$619.52	\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	1322	Sqyd	\$31.92	\$42,198.24	\$7.22	\$9,544.84	\$2.73	\$3,609.62	\$41.87 / Sqyd	\$0.00	\$0.00	\$55,352.70
02640 - Lines on pav't													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1700	Lnft	\$0.11	\$187.00	\$0.13	\$221.00	\$0.07	\$119.00	\$0.31 / Lnft	\$0.00	\$0.00	\$527.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 - Landscaping													
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - Pot Holing													
	Pot Holing - pipe lines	34	Each	\$222.90	\$7,578.60	\$0.00	\$0.00	\$28.21	\$959.29	\$251.11 / Each	\$0.00	\$0.00	\$8,537.89
	SITE CONSTRUCTION Total				\$94,396.68		\$34,307.76		\$34,100.64		\$0.00	\$12,007.00	\$174,812.08
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1700	Lnft	\$37.83	\$64,311.00	\$32.80	\$55,760.00	\$12.50	\$21,250.00	\$83.13 / Lnft	\$0.00	\$0.00	\$141,321.00
	Piping, water dist, conc pipe, gasket, 36" dia	170	Each	\$2.85	\$484.50	\$5.53	\$940.10	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$1,424.60
	MECHANICAL Total				\$64,795.50		\$56,700.10		\$21,250.00		\$0.00	\$0.00	\$142,745.60
	Project BB-2 Total				\$159,192.18		\$91,007.86		\$58,518.64		\$0.00	\$12,007.00	\$320,725.68
	Grand Total				\$159,192.18		\$91,007.86		\$58,518.64		\$0.00	\$12,007.00	\$320,725.68

Category	Percent	Amount
Labor	49.63%	\$159,192
Material	28.38%	\$91,008
Equipment	18.25%	\$58,519
Subcontractor	0.00%	\$0
Other	3.74%	\$12,007
Net Costs		\$320,726
Labor Mark-up	18.00%	\$28,655
Material Mark-up	15.00%	\$13,651
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,778
Sales tax (material)	7.75%	\$7,053
Sales tax (equipment)	7.75%	\$4,535
Material Shipping & Handling	2.50%	\$2,275
Worker's Travel/Subsistence	0.10%	\$159
Subtotal		\$385,832
Contractor General Conditions	12.00%	\$46,300
Subtotal		\$432,132
Earthquake Insurance	0.10%	\$432
Subtotal		\$432,564
Construction Contingency	20.00%	\$86,513
Subtotal		\$519,077
Bldg Risk, Liability Auto Ins.	2.00%	\$10,382
Subtotal		\$529,458
Performance Bond	1.00%	\$5,295
Payment Bond	1.00%	\$5,295
Subtotal		\$540,047
Engineering Fee	10.00%	\$32,073
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$579,120



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	4/18/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BCA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BCA													
01 - GENERAL REQUIREMENTS													
	Trench box, 9500 lbs, 8'x 20'	40	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$5,270.00	\$131.75 / Day	\$0.00	\$0.00	\$5,270.00
	Trench Plates allowance	2	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$1,000.00	\$500 / Mo	\$0.00	\$0.00	\$1,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$6,270.00		\$0.00	\$0.00	\$6,270.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	29	Clf	\$2.34	\$67.86	\$3.06	\$88.74	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$156.60
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1806	Sqyd	\$4.76	\$8,596.56	\$0.00	\$0.00	\$3.20	\$5,771.47	\$7.95 / Sqyd	\$0.00	\$0.00	\$14,368.03
	Asphalt disposal - hauling and disposal fee, 4" thick	1806	Sqyd	\$0.89	\$1,607.34	\$4.30	\$7,765.80	\$1.20	\$2,158.21	\$6.38 / Sqyd	\$0.00	\$0.00	\$11,531.35
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	6600	Lnft	\$0.78	\$5,148.00	\$0.15	\$990.00	\$0.40	\$2,671.00	\$1.33 / Lnft	\$0.00	\$0.00	\$8,809.00
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	6600	Lnft	\$0.46	\$3,036.00	\$0.04	\$264.00	\$0.24	\$1,556.00	\$0.73 / Lnft	\$0.00	\$0.00	\$4,856.00
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1173	Cuyd	\$0.71	\$832.83	\$0.00	\$0.00	\$1.17	\$1,374.85	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,207.68
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	1970	Cuyd	\$7.64	\$15,050.80	\$20.73	\$40,838.10	\$1.73	\$3,409.62	\$30.1 / Cuyd	\$0.00	\$0.00	\$59,298.52
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	232	Cuyd	\$1.76	\$408.32	\$0.00	\$0.00	\$0.47	\$107.92	\$2.22 / Cuyd	\$0.00	\$0.00	\$516.24
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1691	Cuyd	\$2.70	\$4,565.70	\$0.00	\$0.00	\$0.72	\$1,209.45	\$3.41 / Cuyd	\$0.00	\$0.00	\$5,775.15
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1057	Cuyd	\$2.70	\$2,853.90	\$0.00	\$0.00	\$0.72	\$755.99	\$3.41 / Cuyd	\$0.00	\$0.00	\$3,609.89
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3075	Cuyd	\$1.56	\$4,797.00	\$0.00	\$0.00	\$1.17	\$3,608.55	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,405.55
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2670	Cuyd	\$5.41	\$14,444.70	\$0.00	\$0.00	\$9.45	\$25,237.42	\$14.86 / Cuyd	\$0.00	\$0.00	\$39,682.12
	Loading Trucks, F.E. Loader, 3 C.Y..	2670	Cuyd	\$0.66	\$1,762.20	\$0.00	\$0.00	\$1.13	\$3,026.60	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,788.80
	Disposal fee	134	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$14,017.50	\$14,017.50
02490 - Erosion control													
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02570 - Catch basins or manholes													
	Cleanout	9	Each	\$926.00	\$8,334.00	\$1,300.00	\$11,700.00	\$226.00	\$2,034.00	\$2452 / Each	\$0.00	\$0.00	\$22,068.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	8	Each	\$534.28	\$4,274.24	\$471.57	\$3,772.56	\$0.00	\$0.00	\$1005.85 / Each	\$0.00	\$0.00	\$8,046.80
	Junction Structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	1806	Sqyd	\$0.73	\$1,318.38	\$6.88	\$12,425.28	\$0.93	\$1,680.97	\$8.54 / Sqyd	\$0.00	\$0.00	\$15,424.63
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	1806	Sqyd	\$31.92	\$57,647.52	\$7.22	\$13,039.32	\$2.73	\$4,931.14	\$41.87 / Sqyd	\$0.00	\$0.00	\$75,617.98
02640 - Lines on pav't													

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	3300	Lnft	\$0.11	\$363.00	\$0.13	\$429.00	\$0.07	\$231.00	\$0.31 / Lnft	\$0.00	\$0.00	\$1,023.00
	02840 - Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$9,756.00	\$9,756.00
	<i>SITE CONSTRUCTION Total</i>				<i>\$136,347.39</i>		<i>\$101,312.80</i>		<i>\$59,764.18</i>		<i>\$0.00</i>	<i>\$29,001.50</i>	<i>\$326,425.87</i>
	<i>15 - MECHANICAL</i>												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	2900	Lnft	\$22.34	\$64,786.00	\$24.00	\$69,600.00	\$2.60	\$7,540.00	\$48.94 / Lnft	\$0.00	\$0.00	\$141,926.00
	Piping, water dist, conc pipe, gasket, 24" dia	290	Each	\$2.85	\$826.50	\$3.75	\$1,087.50	\$0.00	\$0.00	\$6.6 / Each	\$0.00	\$0.00	\$1,914.00
	<i>MECHANICAL Total</i>				<i>\$65,612.50</i>		<i>\$70,687.50</i>		<i>\$7,540.00</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$143,840.00</i>
	<i>Project BCA total</i>				<i>\$201,959.89</i>		<i>\$172,000.30</i>		<i>\$73,574.18</i>		<i>\$0.00</i>	<i>\$29,001.50</i>	<i>\$476,535.87</i>
	Grand Total				\$201,959.89		\$172,000.30		\$73,574.18		\$0.00	\$29,001.50	\$476,535.87

Category	Percent	Amount
Labor	42.38%	\$201,960
Material	36.09%	\$172,000
Equipment	15.44%	\$73,574
Subcontractor	0.00%	\$0
Other	6.09%	\$29,002
Net Costs		\$476,536
Labor Mark-up	18.00%	\$36,353
Material Mark-up	15.00%	\$25,800
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,036
Sales tax (material)	7.75%	\$13,330
Sales tax (equipment)	7.75%	\$5,702
Material Shipping & Handling	2.50%	\$4,300
Worker's Travel/Subsistence	0.10%	\$202
Subtotal		\$573,259
Contractor General Conditions	12.00%	\$68,791
Subtotal		\$642,050
Earthquake Insurance	0.10%	\$642
Subtotal		\$642,692
Construction Contingency	20.00%	\$128,538
Subtotal		\$771,230
Bldg Risk, Liability Auto Ins.	2.00%	\$15,425
Subtotal		\$786,655
Performance Bond	1.00%	\$7,867
Payment Bond	1.00%	\$7,867
Subtotal		\$802,388
Engineering Fee	10.00%	\$47,654
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$860,042



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	
Estimate Revision Number::	03
Estimate Revision Date::	5/24/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project BCB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BCB													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,581.00	\$131.75 / Day	\$0.00	\$0.00	\$1,581.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,081.00		\$0.00	\$0.00	\$2,081.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$4.76	\$2,951.20	\$0.00	\$0.00	\$3.20	\$1,981.35	\$7.95 / Sqyd	\$0.00	\$0.00	\$4,932.55
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$0.89	\$551.80	\$4.30	\$2,666.00	\$1.20	\$740.91	\$6.38 / Sqyd	\$0.00	\$0.00	\$3,958.71
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	1,859.00	Lnft	\$0.78	\$1,450.02	\$0.15	\$278.85	\$0.40	\$752.33	\$1.33 / Lnft	\$0.00	\$0.00	\$2,481.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46	\$855.14	\$0.04	\$74.36	\$0.24	\$438.27	\$0.73 / Lnft	\$0.00	\$0.00	\$1,367.77
02310 - Fine grade													
	Fine grade under asphalt	620	Sqyd	\$0.77	\$477.40	\$0.00	\$0.00	\$0.16	\$101.69	\$0.93 / Sqyd	\$0.00	\$0.00	\$579.09
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	628	Cuyd	\$7.64	\$4,797.92	\$20.73	\$13,018.44	\$1.73	\$1,086.92	\$30.1 / Cuyd	\$0.00	\$0.00	\$18,903.28
	Backfill, dozer backfilling, trench, no compaction	628	Cuyd	\$0.71	\$445.88	\$0.00	\$0.00	\$1.17	\$736.06	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,181.94
02360 - Compaction													
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	565.3	Cuyd	\$1.76	\$994.93	\$0.00	\$0.00	\$0.47	\$262.96	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,257.89
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	94.2	Cuyd	\$1.76	\$165.79	\$0.00	\$0.00	\$0.47	\$43.82	\$2.22 / Cuyd	\$0.00	\$0.00	\$209.61
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	585.5	Cuyd	\$1.76	\$1,030.48	\$0.00	\$0.00	\$0.47	\$272.36	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,302.84
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1,319.00	Cuyd	\$1.56	\$2,057.64	\$0.00	\$0.00	\$1.17	\$1,547.86	\$2.73 / Cuyd	\$0.00	\$0.00	\$3,605.50
02460 - Hauling													
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1,517.00	Cuyd	\$7.18	\$10,892.06	\$3.00	\$4,551.00	\$15.45	\$23,432.02	\$25.62 / Cuyd	\$0.00	\$0.00	\$38,875.08
	Loading Trucks, F.E. Loader, 3 C.Y..	1,517.00	Cuyd	\$0.66	\$1,001.22	\$0.00	\$0.00	\$1.13	\$1,719.61	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,720.83
	Disposal fee	76	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$7,964.25	\$7,964.25
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$618.40	\$2,473.60	\$863.60	\$3,454.40	\$150.50	\$602.00	\$1632.5 / Each	\$0.00	\$0.00	\$6,530.00
	Cleanout	3	Each	\$926.00	\$2,778.00	\$1,300.00	\$3,900.00	\$226.00	\$678.00	\$2452 / Each	\$0.00	\$0.00	\$7,356.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$143.28	\$573.12	\$312.49	\$1,249.96	\$32.50	\$130.00	\$488.27 / Each	\$0.00	\$0.00	\$1,953.08
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00	\$200.00	\$376.49 / Each	\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$775.40
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16	Each	\$6.62	\$105.92	\$14.77	\$236.32	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$342.24
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$31.92	\$19,790.40	\$7.22	\$4,476.40	\$2.73	\$1,692.86	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,959.66

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02640 - Lines on pav't</i>													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.11	\$101.75	\$0.13	\$120.25	\$0.07	\$64.75	\$0.31 / Lnft	\$0.00	\$0.00	\$286.75
<i>02840 - Landscaping</i>													
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
<i>02900 - Pot Holing</i>													
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	<i>SITE CONSTRUCTION Total</i>				<i>\$58,647.32</i>		<i>\$35,016.45</i>		<i>\$36,937.74</i>		<i>\$5,000.00</i>	<i>\$15,456.25</i>	<i>\$151,057.75</i>
<i>03 - CONCRETE</i>													
<i>03330 - Patching concrete</i>													
	Patching conc, wall, wall penetration, non-shrink grout, 30" hole	8	Each	\$68.53	\$548.24	\$238.50	\$1,908.00	\$0.00	\$0.00	\$307.03 / Each	\$0.00	\$0.00	\$2,456.24
	<i>CONCRETE Total</i>				<i>\$548.24</i>		<i>\$1,908.00</i>		<i>\$0.00</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,456.24</i>
<i>15 - MECHANICAL</i>													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$30.95	\$28,628.75	\$22.96	\$21,238.00	\$10.27	\$9,499.75	\$64.18 / Lnft	\$0.00	\$0.00	\$59,366.50
	Piping, water dist, conc pipe, gasket, 30" dia	92	Each	\$2.85	\$262.20	\$5.53	\$508.76	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$770.96
	<i>MECHANICAL Total</i>				<i>\$28,890.95</i>		<i>\$21,746.76</i>		<i>\$9,499.75</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,137.46</i>
	<i>Project BCB Total</i>				<i>\$88,086.51</i>		<i>\$58,671.21</i>		<i>\$48,518.49</i>		<i>\$5,000.00</i>	<i>\$15,456.25</i>	<i>\$215,732.45</i>
	Grand Total				\$88,086.51		\$58,671.21		\$48,518.49		\$5,000.00	\$15,456.25	\$215,732.45

Category	Percent	Amount
Labor	40.83%	\$88,087
Material	27.20%	\$58,671
Equipment	22.49%	\$48,518
Subcontractor	2.32%	\$5,000
Other	7.16%	\$15,456
Net Costs		\$215,732
Labor Mark-up	18.00%	\$15,856
Material Mark-up	15.00%	\$8,801
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$7,278
Sales tax (material)	7.75%	\$4,547
Sales tax (equipment)	7.75%	\$3,760
Material Shipping & Handling	2.50%	\$1,467
Worker's Travel/Subsistence	0.10%	\$88
Subtotal		\$257,779
Contractor General Conditions	12.00%	\$30,933
Subtotal		\$288,712
Earthquake Insurance	0.10%	\$289
Subtotal		\$289,001
Construction Contingency	20.00%	\$57,800
Subtotal		\$346,801
Bldg Risk, Liability Auto Ins.	2.00%	\$6,936
Subtotal		\$353,737
Performance Bond	1.00%	\$3,537
Payment Bond	1.00%	\$3,537
Subtotal		\$360,812
Engineering Fee	10.00%	\$21,573
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$392,385



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BCC - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BCC													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,581.00	\$131.75 / Day	\$0.00	\$0.00	\$1,581.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,081.00		\$0.00	\$0.00	\$2,081.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$4.76	\$2,951.20	\$0.00	\$0.00	\$3.20	\$1,981.35	\$7.95 / Sqyd	\$0.00	\$0.00	\$4,932.55
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$0.89	\$551.80	\$4.30	\$2,666.00	\$1.20	\$740.91	\$6.38 / Sqyd	\$0.00	\$0.00	\$3,958.71
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	1,859.0	Lnft	\$0.78	\$1,450.02	\$0.15	\$278.85	\$0.40	\$752.33	\$1.33 / Lnft	\$0.00	\$0.00	\$2,481.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46	\$855.14	\$0.04	\$74.36	\$0.24	\$438.27	\$0.73 / Lnft	\$0.00	\$0.00	\$1,367.77
02310 - Fine grade													
	Fine grade under asphalt	620	Sqyd	\$0.77	\$477.40	\$0.00	\$0.00	\$0.16	\$101.69	\$0.93 / Sqyd	\$0.00	\$0.00	\$579.09
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	911.4	Cuyd	\$7.64	\$6,963.10	\$20.73	\$18,893.32	\$1.73	\$1,577.42	\$30.1 / Cuyd	\$0.00	\$0.00	\$27,433.84
	Backfill, dozer backfilling, trench, no compaction	1463	Cuyd	\$0.71	\$1,038.73	\$0.00	\$0.00	\$1.17	\$1,714.75	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,753.48
02360 - Compaction													
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	668.1	Cuyd	\$1.76	\$1,175.86	\$0.00	\$0.00	\$0.47	\$310.78	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,486.64
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	111.3	Cuyd	\$1.76	\$195.89	\$0.00	\$0.00	\$0.47	\$51.77	\$2.22 / Cuyd	\$0.00	\$0.00	\$247.66
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	783.8	Cuyd	\$1.76	\$1,379.49	\$0.00	\$0.00	\$0.47	\$364.60	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,744.09
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1900	Cuyd	\$1.56	\$2,964.00	\$0.00	\$0.00	\$1.17	\$2,229.67	\$2.73 / Cuyd	\$0.00	\$0.00	\$5,193.67
02460 - Hauling													
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	627	Cuyd	\$7.18	\$4,501.86	\$3.00	\$1,881.00	\$15.45	\$9,684.82	\$25.62 / Cuyd	\$0.00	\$0.00	\$16,067.68
	Loading Trucks, F.E. Loader, 3 C.Y..	627	Cuyd	\$0.66	\$413.82	\$0.00	\$0.00	\$1.13	\$710.74	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,124.56
	Disposal fee	31	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$3,291.75	\$3,291.75
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$618.40	\$2,473.60	\$863.60	\$3,454.40	\$150.50	\$602.00	\$1632.5 / Each	\$0.00	\$0.00	\$6,530.00
	Cleanout	3	Each	\$926.00	\$2,778.00	\$1,300.00	\$3,900.00	\$226.00	\$678.00	\$2452 / Each	\$0.00	\$0.00	\$7,356.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$143.28	\$573.12	\$312.49	\$1,249.96	\$32.50	\$130.00	\$488.27 / Each	\$0.00	\$0.00	\$1,953.08
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00	\$200.00	\$376.49 / Each	\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$775.40
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16	Each	\$6.62	\$105.92	\$14.77	\$236.32	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$342.24
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$31.92	\$19,790.40	\$7.22	\$4,476.40	\$2.73	\$1,692.86	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,959.66
02640 - Lines on pav't													

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.11	\$101.75	\$0.13	\$120.25	\$0.07	\$64.75	\$0.31 / Lnft	\$0.00	\$0.00	\$286.75
	<i>02840 - Landscaping</i>												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	<i>02900 - Pot Holing</i>												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	<i>SITE CONSTRUCTION Total</i>				<i>\$55,894.13</i>		<i>\$38,221.33</i>		<i>\$24,480.69</i>		<i>\$5,000.00</i>	<i>\$10,783.75</i>	<i>\$134,379.90</i>
	<i>03 - CONCRETE</i>												
	<i>03330 - Patching concrete</i>												
	Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$68.53	\$548.24	\$238.50	\$1,908.00	\$0.00	\$0.00	\$307.03 / Each	\$0.00	\$0.00	\$2,456.24
	<i>CONCRETE Total</i>				<i>\$548.24</i>		<i>\$1,908.00</i>		<i>\$0.00</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,456.24</i>
	<i>15 - MECHANICAL</i>												
	<i>15090 - Pipe, drng&sewage, concret</i>												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	925	Lnft	\$37.83	\$34,992.75	\$32.80	\$30,340.00	\$12.50	\$11,562.50	\$83.13 / Lnft	\$0.00	\$0.00	\$76,895.25
	Piping, water dist, conc pipe, gasket, 36" dia	92	Each	\$2.85	\$262.20	\$5.53	\$508.76	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$770.96
	<i>MECHANICAL Total</i>				<i>\$35,254.95</i>		<i>\$30,848.76</i>		<i>\$11,562.50</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$77,666.21</i>
	<i>Project BCC Total</i>				<i>\$91,697.32</i>		<i>\$70,978.09</i>		<i>\$38,124.19</i>		<i>\$5,000.00</i>	<i>\$10,783.75</i>	<i>\$216,583.35</i>
	<i>Grand Total</i>				<i>\$91,697.32</i>		<i>\$70,978.09</i>		<i>\$38,124.19</i>		<i>\$5,000.00</i>	<i>\$10,783.75</i>	<i>\$216,583.35</i>

Category	Percent	Amount
Labor	42.34%	\$91,697
Material	32.77%	\$70,978
Equipment	17.60%	\$38,124
Subcontractor	2.31%	\$5,000
Other	4.98%	\$10,784
Net Costs		\$216,583
Labor Mark-up	18.00%	\$16,506
Material Mark-up	15.00%	\$10,647
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$5,719
Sales tax (material)	7.75%	\$5,501
Sales tax (equipment)	7.75%	\$2,955
Material Shipping & Handling	2.50%	\$1,774
Worker's Travel/Subsistence	0.10%	\$92
Subtotal		\$260,026
Contractor General Conditions	12.00%	\$31,203
Subtotal		\$291,229
Earthquake Insurance	0.10%	\$291
Subtotal		\$291,520
Construction Contingency	20.00%	\$58,304
Subtotal		\$349,824
Bldg Risk, Liability Auto Ins.	2.00%	\$6,996
Subtotal		\$356,821
Performance Bond	1.00%	\$3,568
Payment Bond	1.00%	\$3,568
Subtotal		\$363,957
Engineering Fee	10.00%	\$21,658
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$395,615



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BFA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BFA													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,635.00		\$0.00	\$0.00	\$2,635.00
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	16	Clf	\$2.34	\$37.44	\$3.06	\$48.96	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$86.40
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1072	Sqyd	\$4.76	\$5,102.72	\$0.00	\$0.00	\$3.20	\$3,425.81	\$7.95 / Sqyd	\$0.00	\$0.00	\$8,528.53
	Asphalt disposal - hauling and disposal fee, 4" thick	1072	Sqyd	\$0.89	\$954.08	\$4.30	\$4,609.60	\$1.20	\$1,281.06	\$6.38 / Sqyd	\$0.00	\$0.00	\$6,844.74
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	3214	Lnft	\$0.78	\$2,506.92	\$0.15	\$482.10	\$0.40	\$1,300.70	\$1.33 / Lnft	\$0.00	\$0.00	\$4,289.72
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3214	Lnft	\$0.46	\$1,478.44	\$0.04	\$128.56	\$0.24	\$757.72	\$0.73 / Lnft	\$0.00	\$0.00	\$2,364.72
02310 - Fine grade													
	Fine grade under asphalt	1072	Sqyd	\$0.77	\$825.44	\$0.00	\$0.00	\$0.16	\$175.82	\$0.93 / Sqyd	\$0.00	\$0.00	\$1,001.26
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	1577	Cuyd	\$7.64	\$12,048.28	\$20.73	\$32,691.21	\$1.73	\$2,729.42	\$30.1 / Cuyd	\$0.00	\$0.00	\$47,468.91
	Backfill, dozer backfilling, trench, no compaction	2373	Cuyd	\$0.71	\$1,684.93	\$0.00	\$0.00	\$1.17	\$2,781.51	\$1.88 / Cuyd	\$0.00	\$0.00	\$4,466.43
02360 - Compaction													
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	2373	Cuyd	\$1.76	\$4,176.73	\$0.00	\$0.00	\$0.47	\$1,103.92	\$2.22 / Cuyd	\$0.00	\$0.00	\$5,280.65
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	193	Cuyd	\$1.76	\$338.98	\$0.00	\$0.00	\$0.47	\$89.59	\$2.22 / Cuyd	\$0.00	\$0.00	\$428.57
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1356	Cuyd	\$1.76	\$2,386.56	\$0.00	\$0.00	\$0.47	\$630.77	\$2.22 / Cuyd	\$0.00	\$0.00	\$3,017.33
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3082	Cuyd	\$1.56	\$4,807.92	\$0.00	\$0.00	\$1.17	\$3,616.76	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,424.68
02460 - Hauling													
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1017	Cuyd	\$7.18	\$7,302.49	\$3.00	\$3,051.18	\$15.45	\$15,709.80	\$25.62 / Cuyd	\$0.00	\$0.00	\$26,063.47
	Loading Trucks, F.E. Loader, 3 C.Y..	1017	Cuyd	\$0.66	\$671.26	\$0.00	\$0.00	\$1.13	\$1,152.90	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,824.16
	Disposal fee	51	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$5,339.57	\$5,339.57
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	9	Each	\$618.40	\$5,565.60	\$863.60	\$7,772.40	\$150.50	\$1,354.50	\$1632.5 / Each	\$0.00	\$0.00	\$14,692.50
	Cleanout	5	Each	\$926.00	\$4,630.00	\$1,300.00	\$6,500.00	\$226.00	\$1,130.00	\$2452 / Each	\$0.00	\$0.00	\$12,260.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	9	Each	\$143.28	\$1,289.52	\$312.49	\$2,812.41	\$32.50	\$292.50	\$488.27 / Each	\$0.00	\$0.00	\$4,394.43
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	9	Each	\$146.95	\$1,322.55	\$179.54	\$1,615.86	\$50.00	\$450.00	\$376.49 / Each	\$0.00	\$0.00	\$3,388.41
	CB or manholes, inverts, single channel brick, concrete	9	Each	\$132.85	\$1,195.65	\$61.00	\$549.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$1,744.65
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	45	Each	\$6.62	\$297.90	\$14.77	\$664.65	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$962.55
02580 - Headwall													
	Headwall, conc, CIP, 30< skewed wingwall,	2	Each	\$4,982.10	\$9,964.20	\$1,818.11	\$3,636.22	\$125.00	\$250.00	\$6925.21 / Each	\$0.00	\$0.00	\$13,850.42

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02610 - Asphalt concrete pavement</i>													
	Asphaltic conc pavement, pavement replacement over trench, 4"	1072	Sqyd	\$31.92	\$34,218.24	\$7.22	\$7,739.84	\$2.73	\$2,927.01	\$41.87 / Sqyd	\$0.00	\$0.00	\$44,885.09
<i>02640 - Lines on pav't</i>													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1600	Lnft	\$0.11	\$176.00	\$0.13	\$208.00	\$0.07	\$112.00	\$0.31 / Lnft	\$0.00	\$0.00	\$496.00
<i>02840 - Landscaping</i>													
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
<i>02900 - Pot Holing</i>													
	Pot Holing - pipe lines: 2 per 100'	32	Each	\$222.90	\$7,132.80	\$0.00	\$0.00	\$25.22	\$807.04	\$248.12 / Each	\$0.00	\$0.00	\$7,939.84
	<i>SITE CONSTRUCTION Total</i>				<i>\$110,114.64</i>		<i>\$72,509.99</i>		<i>\$42,078.84</i>		<i>\$5,000.00</i>	<i>\$7,953.57</i>	<i>\$237,657.04</i>
<i>03 - CONCRETE</i>													
<i>03330 - Patching concrete</i>													
	Pre-cast concrete wall penetration, non-shrink grout, 42" hole	18	Each	\$72.00	\$1,296.00	\$200.00	\$3,600.00	\$0.00	\$0.00	\$272 / Each	\$0.00	\$0.00	\$4,896.00
	<i>CONCRETE Total</i>				<i>\$1,296.00</i>		<i>\$3,600.00</i>		<i>\$0.00</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,896.00</i>
<i>15 - MECHANICAL</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia	1600	Lnft	\$42.56	\$68,096.00	\$44.51	\$71,216.00	\$20.21	\$32,336.00	\$107.28 / Lnft	\$0.00	\$0.00	\$171,648.00
	Piping, water dist, conc pipe, gasket, 42" dia	160	Each	\$2.85	\$456.00	\$7.68	\$1,228.80	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$1,684.80
	<i>MECHANICAL Total</i>				<i>\$68,552.00</i>		<i>\$72,444.80</i>		<i>\$32,336.00</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$173,332.80</i>
	<i>Project BFA Total</i>				<i>\$179,962.64</i>		<i>\$148,554.79</i>		<i>\$77,049.84</i>		<i>\$5,000.00</i>	<i>\$7,953.57</i>	<i>\$418,520.84</i>
Grand Total					\$179,962.64		\$148,554.79		\$77,049.84		\$5,000.00	\$7,953.57	\$418,520.84

Category	Percent	Amount
Labor	43.00%	\$179,963
Material	35.50%	\$148,555
Equipment	18.41%	\$77,050
Subcontractor	1.19%	\$5,000
Other	1.90%	\$7,954
Net Costs		\$418,521
Labor Mark-up	18.00%	\$32,393
Material Mark-up	15.00%	\$22,283
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$11,557
Sales tax (material)	7.75%	\$11,513
Sales tax (equipment)	7.75%	\$5,971
Material Shipping & Handling	2.50%	\$3,714
Worker's Travel/Subsistence	0.10%	\$180
Subtotal		\$506,383
Contractor General Conditions	12.00%	\$60,766
Subtotal		\$567,149
Earthquake Insurance	0.10%	\$567
Subtotal		\$567,716
Construction Contingency	20.00%	\$113,543
Subtotal		\$681,259
Bldg Risk, Liability Auto Ins.	2.00%	\$13,625
Subtotal		\$694,885
Performance Bond	1.00%	\$6,949
Payment Bond	1.00%	\$6,949
Subtotal		\$708,782
Engineering Fee	10.00%	\$41,852
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$760,634



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BFB-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BFB-U													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site demo, Area vegetation removal	1	Acre	\$1,598.62	\$1,822.43	\$0.00	\$0.00	\$3,356.14	\$3,826.00	\$4954.76 / Acre	\$0.00	\$0.00	\$5,648.43
02330 - Backfill, structural													
	Backfill, side slope fill	515	Cuyd	\$0.52	\$267.80	\$0.00	\$0.00	\$1.20	\$619.00	\$1.72 / Cuyd	\$0.00	\$0.00	\$886.80
02360 - Compaction													
	Compaction, riding, vibrating roller, 6" lifts, side slope fill	515	Cuyd	\$2.70	\$1,390.50	\$0.00	\$0.00	\$0.72	\$368.34	\$3.41 / Cuyd	\$0.00	\$0.00	\$1,758.84
02390 - Excavating, bulk bank measure													
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	1864	Cuyd	\$1.00	\$1,864.00	\$0.00	\$0.00	\$0.64	\$1,188.00	\$1.63 / Cuyd	\$0.00	\$0.00	\$3,052.00
02430 - Fill													
	Fill, spread fill, with dozer	515	Cuyd	\$1.07	\$551.05	\$0.00	\$0.00	\$2.46	\$1,264.36	\$3.52 / Cuyd	\$0.00	\$0.00	\$1,815.41
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1348	Cuyd	\$5.41	\$7,292.68	\$0.00	\$0.00	\$9.45	\$12,741.59	\$14.86 / Cuyd	\$0.00	\$0.00	\$20,034.27
	Loading Trucks, F.E. Loader, 3 C.Y..	1348	Cuyd	\$0.66	\$889.68	\$0.00	\$0.00	\$1.13	\$1,528.04	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,417.72
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled	100	Cuyd	\$85.11	\$8,511.00	\$42.49	\$4,249.00	\$24.55	\$2,455.00	\$152.15 / Cuyd	\$0.00	\$0.00	\$15,215.00
02490 - Erosion control													
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	3299	Sqyd	\$0.44	\$1,451.56	\$1.10	\$3,628.90	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$5,080.46
02600 - Base course													
	Base course, roadway, compacted to 12" deep	667	Sqyd	\$0.80	\$533.60	\$9.15	\$6,103.05	\$0.90	\$600.00	\$10.84 / Sqyd	\$0.00	\$0.00	\$7,236.65
SITE CONSTRUCTION Total					\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58
03 - CONCRETE													
Project BFB-U-Total					\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58
Grand Total					\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58

Category	Percent	Amount
Labor	38.92%	\$24,574
Material	22.14%	\$13,981
Equipment	38.94%	\$24,590
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$63,146
Labor Mark-up	18.00%	\$4,423
Material Mark-up	15.00%	\$2,097
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,689
Sales tax (material)	7.75%	\$1,084
Sales tax (equipment)	7.75%	\$1,906
Material Shipping & Handling	2.50%	\$350
Worker's Travel/Subsistence	0.10%	\$25
Subtotal		\$76,718
Contractor General Conditions	12.00%	\$9,206
Subtotal		\$85,924
Earthquake Insurance	0.10%	\$86
Subtotal		\$86,010
Construction Contingency	25.00%	\$21,503
Subtotal		\$107,513
Bldg Risk, Liability Auto Ins.	2.00%	\$2,150
Subtotal		\$109,663
Performance Bond	1.00%	\$1,097
Payment Bond	1.00%	\$1,097
Subtotal		\$111,856
Engineering Fee	10.00%	\$6,315
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$128,171



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2009

PROJECT LOCATION / PROCESS AREA

Project BFB-L - Located in Basin B

32 of 67

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>15 - MECHANICAL</i>													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	800	Lnft	\$42.56	\$34,048.00	\$55.75	\$44,600.00	\$20.21	\$16,168.00	\$118.52 / Lnft	\$0.00	\$0.00	\$94,816.00
	Piping, water dist, conc pipe, gasket, 48" dia	80	Each	\$2.85	\$228.00	\$7.68	\$614.40	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$842.40
	<i>MECHANICAL Total</i>				<i>\$72,758.40</i>		<i>\$75,031.51</i>		<i>\$40,307.72</i>		<i>\$0.00</i>	<i>\$2,614.00</i>	<i>\$190,711.63</i>
	<i>Project BFB-L Total</i>				<i>\$72,758.40</i>		<i>\$75,031.51</i>		<i>\$41,888.72</i>		<i>\$0.00</i>	<i>\$2,614.00</i>	<i>\$192,292.63</i>
	Grand Total				\$72,758.40		\$75,031.51		\$41,888.72		\$0.00	\$2,614.00	\$192,292.63

Category	Percent	Amount
Labor	37.84%	\$72,758
Material	39.02%	\$75,032
Equipment	21.78%	\$41,889
Subcontractor	0.00%	\$0
Other	1.36%	\$2,614
Net Costs		\$192,293
Labor Mark-up	18.00%	\$13,097
Material Mark-up	15.00%	\$11,255
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$6,283
Sales tax (material)	7.75%	\$5,815
Sales tax (equipment)	7.75%	\$3,246
Material Shipping & Handling	2.50%	\$1,876
Worker's Travel/Subsistence	0.10%	\$73
Subtotal		\$233,937
Contractor General Conditions	12.00%	\$28,072
Subtotal		\$262,009
Earthquake Insurance	0.10%	\$262
Subtotal		\$262,271
Construction Contingency	25.00%	\$65,568
Subtotal		\$327,839
Bldg Risk, Liability Auto Ins.	2.00%	\$6,557
Subtotal		\$334,396
Performance Bond	1.00%	\$3,344
Payment Bond	1.00%	\$3,344
Subtotal		\$341,084
Engineering Fee	10.00%	\$19,229
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$370,313



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Mathews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BF1 - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BF1													
02 - SITE CONSTRUCTION													
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction, inlet	11	Cuyd	\$0.71	\$8.09	\$0.00	\$0.00	\$1.17	\$13.36	\$1.88 / Cuyd	\$0.00	\$0.00	\$21.46
	Backfill, dozer backfilling, trench, no compaction, outlet	10	Cuyd	\$0.71	\$7.38	\$0.00	\$0.00	\$1.17	\$12.19	\$1.88 / Cuyd	\$0.00	\$0.00	\$19.57
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2", inlet	9	Cuyd	\$7.64	\$68.00	\$20.73	\$184.50	\$1.73	\$15.40	\$30.1 / Cuyd	\$0.00	\$0.00	\$267.90
	Bedding, crushed stone 3/4" to 1/2", outlet	7	Cuyd	\$7.64	\$52.72	\$20.73	\$143.04	\$1.73	\$11.94	\$30.1 / Cuyd	\$0.00	\$0.00	\$207.70
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, bedding, inlet	8	Cuyd	\$1.76	\$13.55	\$0.00	\$0.00	\$0.47	\$3.58	\$2.22 / Cuyd	\$0.00	\$0.00	\$17.13
	Compaction, trench, walk behind, vib. plate, subgrade, inlet	1	Cuyd	\$1.76	\$1.76	\$0.00	\$0.00	\$0.47	\$0.47	\$2.22 / Cuyd	\$0.00	\$0.00	\$2.23
	Compaction, trench, walk behind, vib. plate, bedding, outlet	6	Cuyd	\$1.76	\$10.38	\$0.00	\$0.00	\$0.47	\$2.74	\$2.22 / Cuyd	\$0.00	\$0.00	\$13.13
	Compaction, trench, walk behind, vib. plate, subgrade, outlet	1	Cuyd	\$1.76	\$1.58	\$0.00	\$0.00	\$0.47	\$0.42	\$2.22 / Cuyd	\$0.00	\$0.00	\$2.00
	Compaction, trench, walk behind, vib. plate, inlet	10	Cuyd	\$1.76	\$17.95	\$0.00	\$0.00	\$0.47	\$4.74	\$2.22 / Cuyd	\$0.00	\$0.00	\$22.70
	Compaction, trench, walk behind, vib. plate, outlet	9	Cuyd	\$1.76	\$16.37	\$0.00	\$0.00	\$0.47	\$4.33	\$2.22 / Cuyd	\$0.00	\$0.00	\$20.69
02410 - Excavation, bulk, scrapers													
	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	31500	Cuyd	\$1.15	\$36,225.00	\$0.00	\$0.00	\$4.75	\$149,653.64	\$5.9 / Cuyd	\$0.00	\$0.00	\$185,878.64
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet	22	Cuyd	\$1.73	\$37.37	\$0.00	\$0.00	\$1.30	\$28.16	\$3.03 / Cuyd	\$0.00	\$0.00	\$65.53
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	17	Cuyd	\$1.73	\$29.93	\$0.00	\$0.00	\$1.30	\$22.56	\$3.03 / Cuyd	\$0.00	\$0.00	\$52.49
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled	94	Cuyd	\$85.11	\$7,966.30	\$42.49	\$3,977.06	\$24.55	\$2,297.88	\$152.15 / Cuyd	\$0.00	\$0.00	\$14,241.24
	SITE CONSTRUCTION Total				\$44,456.38		\$4,304.60		\$152,071.42		\$0.00	\$0.00	\$200,832.40
03 - CONCRETE													
03150 - Concrete, ready mix													
	Headwall, inlet	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$1,860.00	\$1,860.00
	Headwall, outlet	1	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$997.50	\$997.50
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$2,857.50	\$2,857.50
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	8	Lnft	\$37.83	\$302.64	\$32.80	\$262.40	\$12.50	\$100.00	\$83.13 / Lnft	\$0.00	\$0.00	\$665.04
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	8	Lnft	\$42.56	\$340.48	\$55.75	\$446.00	\$20.21	\$161.68	\$118.52 / Lnft	\$0.00	\$0.00	\$948.16
15125 - Pipe, strm drng, corr metal													
	Piping, storm drain, CMP, plain, 20' lengths, 24" dia, 14 ga	24	Lnft	\$12.77	\$306.48	\$16.02	\$384.48	\$2.08	\$49.92	\$30.87 / Lnft	\$0.00	\$0.00	\$740.88
	MECHANICAL Total				\$949.60		\$1,092.88		\$311.60		\$0.00	\$0.00	\$2,354.08
	Project BF1 Total				\$45,405.98		\$5,397.48		\$152,383.02		\$0.00	\$2,857.50	\$206,043.98
	Grand Total				\$45,405.98		\$5,397.48		\$152,383.02		\$0.00	\$2,857.50	\$206,043.98

Category	Percent	Amount
Labor	22.04%	\$45,406
Material	2.62%	\$5,397
Equipment	73.96%	\$152,383
Subcontractor	0.00%	\$0
Other	1.39%	\$2,858
Net Costs		\$206,044
Labor Mark-up	18.00%	\$8,173
Material Mark-up	15.00%	\$810
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$22,857
Sales tax (material)	7.75%	\$418
Sales tax (equipment)	7.75%	\$11,810
Material Shipping & Handling	2.50%	\$135
Worker's Travel/Subsistence	0.10%	\$45
Subtotal		\$250,292
Contractor General Conditions	12.00%	\$30,035
Subtotal		\$280,328
Earthquake Insurance	0.10%	\$280
Subtotal		\$280,608
Construction Contingency	20.00%	\$56,122
Subtotal		\$336,729
Bldg Risk, Liability Auto Ins.	2.00%	\$6,735
Subtotal		\$343,464
Performance Bond	1.00%	\$3,435
Payment Bond	1.00%	\$3,435
Subtotal		\$350,333
Engineering Fee	10.00%	\$20,604
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$380,938



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BJ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BJ													
02 - SITE CONSTRUCTION													
02210 - Clear and grub													
	Clear & grub, brush, including stumps	6	Acre	\$1,598.62	\$9,591.72	\$0.00	\$0.00	\$3,351.72	\$20,110.34	\$4950.34 / Acre	\$0.00	\$0.00	\$29,702.06
02310 - Fine grade													
	Grade pad, contour area	23334	Sqyd	\$0.50	\$11,667.00	\$0.00	\$0.00	\$0.40	\$9,406.00	\$0.9 / Sqyd	\$0.00	\$0.00	\$21,073.00
	Grade slopes	6556	Sqyd	\$0.50	\$3,278.00	\$0.00	\$0.00	\$0.40	\$2,643.00	\$0.9 / Sqyd	\$0.00	\$0.00	\$5,921.00
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction	7300	Cuyd	\$0.71	\$5,183.00	\$0.00	\$0.00	\$1.17	\$8,556.17	\$1.88 / Cuyd	\$0.00	\$0.00	\$13,739.17
02360 - Compaction													
	Compaction, trench, walk behind, vib... Plate	7300	Cuyd	\$1.76	\$12,848.00	\$0.00	\$0.00	\$0.47	\$3,395.76	\$2.22 / Cuyd	\$0.00	\$0.00	\$16,243.76
02400 - Excavating bulk, dozer,													
	Hauling, LCY, no loading, 50" haul	31450	Cuyd	\$0.52	\$16,354.00	\$0.00	\$0.00	\$0.86	\$27,047.00	\$1.37 / Cuyd	\$0.00	\$0.00	\$43,401.00
02410 - Excavation, bulk, scrapers													
	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	7300	Cuyd	\$1.15	\$8,395.00	\$0.00	\$0.00	\$4.75	\$34,681.64	\$5.9 / Cuyd	\$0.00	\$0.00	\$43,076.64
02480 - Rip-rap													
	Rip-rap, energy dissipater	120	Sqyd	\$51.39	\$6,166.80	\$21.72	\$2,606.40	\$17.04	\$2,045.00	\$90.15 / Sqyd	\$0.00	\$0.00	\$10,818.20
02490 - Erosion Control													
	Erosion control, jute mesh, 100 SY per roll, 4' wide	6556	Sqyd	\$0.44	\$2,884.64	\$0.64	\$4,195.84	\$0.11	\$719.71	\$1.18 / Sqyd	\$0.00	\$0.00	\$7,800.19
	Erosion control, silt fence, polypropylene, 3' high	1800	Inft	\$0.74	\$1,332.00	\$0.33	\$594.00	\$0.00	\$0.00	\$1.07 / Inft	\$0.00	\$0.00	\$1,926.00
	Erosion control, silt fence, polypropylene, 3' high, remove	1800	Inft	\$0.37	\$666.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.37 / Inft	\$0.00	\$0.00	\$666.00
	Erosion control, hay bales, staked	2200	Inft	\$1.15	\$2,530.00	\$2.25	\$4,950.00	\$0.09	\$200.00	\$3.49 / Inft	\$0.00	\$0.00	\$7,680.00
02840 - Landscaping													
	Slope Landscaping/irrigation	59000	Sqft	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29500 / Sqft	\$29,500.00	\$0.00	\$29,500.00
SITE CONSTRUCTION Total					\$80,896.16		\$12,346.24		\$108,804.62		\$29,500.00	\$0.00	\$231,547.02
03 - CONCRETE													
03150 - Concrete, ready mix													
	Headwall	3	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$2,250.00	\$2,250.00
	Headwall	3	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$2,250.00	\$2,250.00
	3'x6' RCB Culvert	16	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$12,000.00	\$12,000.00
CONCRETE Total					\$0.00		\$0.00		\$0.00		\$0.00	\$16,500.00	\$16,500.00
11 - EQUIPMENT													
11010 - Process Equipment													
	Water unit	1628	Gal	\$0.70	\$1,139.60	\$1.05	\$1,709.40	\$0.00	\$0.00	\$1.75 / Gal	\$0.00	\$0.00	\$2,849.00
EQUIPMENT Total					\$1,139.60		\$1,709.40		\$0.00		\$0.00	\$0.00	\$2,849.00
Project BJ Total					\$82,035.76		\$14,055.64		\$108,804.62		\$29,500.00	\$16,500.00	\$250,896.02
Grand Total					\$82,035.76		\$14,055.64		\$108,804.62		\$29,500.00	\$16,500.00	\$250,896.02

Category	Percent	Amount
Labor	32.70%	\$82,036
Material	5.60%	\$14,056
Equipment	43.37%	\$108,805
Subcontractor	11.76%	\$29,500
Other	6.58%	\$16,500
Net Costs		\$250,896
Labor Mark-up	18.00%	\$14,766
Material Mark-up	15.00%	\$2,108
Subcontractor Mark-up	5.00%	\$1,475
Equipment Mark-up	15.00%	\$16,321
Sales tax (material)	7.75%	\$1,089
Sales tax (equipment)	7.75%	\$8,432
Material Shipping & Handling	2.50%	\$351
Worker's Travel/Subsistence	0.10%	\$82
Subtotal		\$295,522
Contractor General Conditions	12.00%	\$35,463
Subtotal		\$330,984
Earthquake Insurance	0.10%	\$331
Subtotal		\$331,315
Construction Contingency	20.00%	\$66,263
Subtotal		\$397,578
Bldg Risk, Liability Auto Ins.	2.00%	\$7,952
Subtotal		\$405,530
Performance Bond	1.00%	\$4,055
Payment Bond	1.00%	\$4,055
Subtotal		\$413,640
Engineering Fee	10.00%	\$25,090
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$455,730



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2016
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BJB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BJB													
02 - SITE CONSTRUCTION													
02340 - Bedding													
	Backing Material class #1	150	Cuyd	\$15.05	\$2,257.50	\$40.10	\$6,015.00	\$18.79	\$2,818.18	\$73.93 / Cuyd	\$0.00	\$0.00	\$11,090.68
02360 - Compaction													
	Compaction, trench, walk behind, vib.. Plate	80	Cuyd	\$1.76	\$140.80	\$0.00	\$0.00	\$0.47	\$37.21	\$2.22 / Cuyd	\$0.00	\$0.00	\$178.01
02450 - Excavating													
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	440	Cuyd	\$1.00	\$440.00	\$0.00	\$0.00	\$0.64	\$280.43	\$1.63 / Cuyd	\$0.00	\$0.00	\$720.43
02460 - Hauling													
	Disposal fee	25	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,625.00	\$2,625.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	440	Cuyd	\$7.18	\$3,159.20	\$3.00	\$1,320.00	\$15.45	\$6,796.43	\$25.62 / Cuyd	\$0.00	\$0.00	\$11,275.63
	Loading Trucks, F.E. Loader, 3 C.Y., clear & grub	440	Cuyd	\$0.52	\$228.80	\$0.00	\$0.00	\$0.99	\$434.43	\$1.5 / Cuyd	\$0.00	\$0.00	\$663.23
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	525	Sqyd	\$0.29	\$152.25	\$1.71	\$897.75	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$1,050.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	290	Cuyd	\$67.91	\$19,693.90	\$42.49	\$12,322.10	\$24.56	\$7,122.40	\$134.96 / Cuyd	\$0.00	\$0.00	\$39,138.40
SITE CONSTRUCTION Total					\$26,072.45		\$20,554.85		\$17,489.08		\$0.00	\$2,625.00	\$66,741.38
03 - CONCRETE													
03150 - Concrete, ready mix													
	Wing wall for 7'X11' box culvert	9	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$6,750.00	\$6,750.00
CONCRETE Total					\$0.00		\$0.00		\$0.00		\$0.00	\$6,750.00	\$6,750.00
Project BJB Total					\$26,072.45		\$20,554.85		\$17,489.08		\$0.00	\$9,375.00	\$73,491.38
Grand Total					\$26,072.45		\$20,554.85		\$17,489.08		\$0.00	\$9,375.00	\$73,491.38

Category	Percent	Amount
Labor	35.48%	\$26,072
Material	27.97%	\$20,555
Equipment	23.80%	\$17,489
Subcontractor	0.00%	\$0
Other	12.76%	\$9,375
Net Costs		\$73,491
Labor Mark-up	18.00%	\$4,693
Material Mark-up	15.00%	\$3,083
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,623
Sales tax (material)	7.75%	\$1,593
Sales tax (equipment)	7.75%	\$1,355
Material Shipping & Handling	2.50%	\$514
Worker's Travel/Subsistence	0.10%	\$26
Subtotal		\$87,379
Contractor General Conditions	12.00%	\$10,486
Subtotal		\$97,865
Earthquake Insurance	0.10%	\$98
Subtotal		\$97,963
Construction Contingency	25.00%	\$24,491
Subtotal		\$122,453
Bldg Risk, Liability Auto Ins.	2.00%	\$2,449
Subtotal		\$124,903
Performance Bond	1.00%	\$1,249
Payment Bond	1.00%	\$1,249
Subtotal		\$127,401
Engineering Fee	10.00%	\$7,349
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$144,750



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/11/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BL-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BL-U													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,317.50	\$131.75 / Day	\$0.00	\$0.00	\$1,317.50
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,817.50		\$0.00	\$0.00	\$1,817.50
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	943	Cuyd	\$0.71	\$669.53	\$0.00	\$0.00	\$1.17	\$1,105.27	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,774.80
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	737	Cuyd	\$7.64	\$5,630.68	\$20.73	\$15,278.01	\$1.73	\$1,275.58	\$30.1 / Cuyd	\$0.00	\$0.00	\$22,184.27
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	93	Cuyd	\$1.76	\$163.68	\$0.00	\$0.00	\$0.47	\$43.26	\$2.22 / Cuyd	\$0.00	\$0.00	\$206.94
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	634	Cuyd	\$2.70	\$1,711.80	\$0.00	\$0.00	\$0.72	\$453.45	\$3.41 / Cuyd	\$0.00	\$0.00	\$2,165.25
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	849	Cuyd	\$2.70	\$2,292.30	\$0.00	\$0.00	\$0.72	\$607.23	\$3.41 / Cuyd	\$0.00	\$0.00	\$2,899.53
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1729	Cuyd	\$1.56	\$2,697.24	\$0.00	\$0.00	\$1.17	\$2,029.00	\$2.73 / Cuyd	\$0.00	\$0.00	\$4,726.24
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1218	Cuyd	\$5.41	\$6,589.38	\$0.00	\$0.00	\$9.45	\$11,512.80	\$14.86 / Cuyd	\$0.00	\$0.00	\$18,102.18
	Loading Trucks, F.E. Loader, 3 C.Y..	1218	Cuyd	\$0.66	\$803.88	\$0.00	\$0.00	\$1.13	\$1,380.68	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,184.56
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Junction structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
	CB or manholes, conc, precast, 4' ID, 6' deep	4	Each	\$497.85	\$1,991.40	\$482.94	\$1,931.76	\$135.67	\$542.67	\$1116.45 / Each	\$0.00	\$0.00	\$4,465.83
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	4	Each	\$143.28	\$573.12	\$177.27	\$709.08	\$32.50	\$130.00	\$353.05 / Each	\$0.00	\$0.00	\$1,412.20
	Catch basns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00	\$200.00	\$376.49 / Each	\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$775.40
	Catch basins or manholes, steps, standard sizes, aluminum	12	Each	\$8.94	\$107.28	\$17.05	\$204.60	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$311.88
	Cleanout	1	Each	\$926.00	\$926.00	\$1,300.00	\$1,300.00	\$226.00	\$226.00	\$2452 / Each	\$0.00	\$0.00	\$2,452.00
	SITE CONSTRUCTION Total				\$26,533.25		\$30,410.09		\$19,505.93		\$0.00	\$2,614.00	\$79,063.27
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia	800	Lnft	\$37.83	\$30,264.00	\$44.51	\$35,608.00	\$17.97	\$14,376.00	\$100.31 / Lnft	\$0.00	\$0.00	\$80,248.00
	Piping, water dist, conc pipe, gasket, 39" dia	80	Each	\$2.85	\$228.00	\$7.68	\$614.40	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$842.40
	MECHANICAL Total				\$30,492.00		\$36,222.40		\$14,376.00		\$0.00	\$0.00	\$81,090.40
	Project BL-U Total				\$57,025.25		\$66,632.49		\$35,699.43		\$0.00	\$2,614.00	\$161,971.17
	Grand Total				\$57,025.25		\$66,632.49		\$35,699.43		\$0.00	\$2,614.00	\$161,971.17

Category	Percent	Amount
Labor	6.32%	\$57,025
Material	7.38%	\$66,632
Equipment	3.96%	\$35,699
Subcontractor	0.00%	\$0
Other	0.29%	\$2,614
Net Costs		\$161,971
Labor Mark-up	18.00%	\$10,265
Material Mark-up	15.00%	\$9,995
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$5,355
Sales tax (material)	7.75%	\$5,164
Sales tax (equipment)	7.75%	\$2,767
Material Shipping & Handling	2.50%	\$1,666
Worker's Travel/Subsistence	0.10%	\$57
Subtotal		\$197,239
Contractor General Conditions	12.00%	\$23,669
Subtotal		\$220,908
Earthquake Insurance	0.10%	\$221
Subtotal		\$221,129
Construction Contingency	25.00%	\$55,282
Subtotal		\$276,411
Bldg Risk, Liability Auto Ins.	2.00%	\$5,528
Subtotal		\$281,939
Performance Bond	1.00%	\$2,819
Payment Bond	1.00%	\$2,819
Subtotal		\$287,578
Engineering Fee	10.00%	\$16,197
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$313,775



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BL-L - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BL-L													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$131.75	\$131.75 / Day	\$0.00	\$0.00	\$131.75
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$631.75		\$0.00	\$0.00	\$631.75
02 SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	10	Sqyd	\$4.76	\$47.60	\$0.00	\$0.00	\$3.20	\$31.96	\$7.95 / Sqyd	\$0.00	\$0.00	\$79.56
	Asphalt disposal - hauling and disposal fee, 4" thick	1	Sqyd	\$0.89	\$0.89	\$4.30	\$4.30	\$1.20	\$1.20	\$6.38 / Sqyd	\$0.00	\$0.00	\$6.39
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	65	Lnft	\$0.78	\$50.70	\$0.15	\$9.75	\$0.40	\$26.31	\$1.33 / Lnft	\$0.00	\$0.00	\$86.76
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	65	Lnft	\$0.46	\$29.90	\$0.04	\$2.60	\$0.24	\$15.32	\$0.73 / Lnft	\$0.00	\$0.00	\$47.82
02310 - Fine grade													
	Fine grade under asphalt	10	Sqyd	\$0.77	\$7.70	\$0.00	\$0.00	\$0.16	\$1.64	\$0.93 / Sqyd	\$0.00	\$0.00	\$9.34
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction	33	Cuyd	\$0.71	\$23.43	\$0.00	\$0.00	\$1.17	\$38.68	\$1.88 / Cuyd	\$0.00	\$0.00	\$62.11
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	9	Cuyd	\$7.64	\$64.94	\$20.73	\$176.21	\$1.73	\$14.71	\$30.1 / Cuyd	\$0.00	\$0.00	\$255.86
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	74	Cuyd	\$1.76	\$130.24	\$0.00	\$0.00	\$0.47	\$34.42	\$2.22 / Cuyd	\$0.00	\$0.00	\$164.66
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	74	Cuyd	\$2.70	\$199.80	\$0.00	\$0.00	\$0.72	\$52.93	\$3.41 / Cuyd	\$0.00	\$0.00	\$252.73
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	74	Cuyd	\$2.70	\$199.80	\$0.00	\$0.00	\$0.72	\$52.93	\$3.41 / Cuyd	\$0.00	\$0.00	\$252.73
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	107	Cuyd	\$1.56	\$166.92	\$0.00	\$0.00	\$1.17	\$125.57	\$2.73 / Cuyd	\$0.00	\$0.00	\$292.49
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	74	Cuyd	\$5.41	\$400.34	\$0.00	\$0.00	\$9.45	\$699.46	\$14.86 / Cuyd	\$0.00	\$0.00	\$1,099.80
	Loading Trucks, F.E. Loader, 3 C.Y..	74	Cuyd	\$0.66	\$48.84	\$0.00	\$0.00	\$1.13	\$83.88	\$1.79 / Cuyd	\$0.00	\$0.00	\$132.72
	Disposal fee	4	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$388.50	\$388.50
02490 - Erosion control													
	Erosion control allowance::	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	10	Sqyd	\$0.73	\$7.30	\$6.88	\$68.80	\$0.93	\$9.31	\$8.54 / Sqyd	\$0.00	\$0.00	\$85.41
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	10	Sqyd	\$31.92	\$319.20	\$7.22	\$72.20	\$2.73	\$27.30	\$41.87 / Sqyd	\$0.00	\$0.00	\$418.70
02840 - Landscaping													
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$1,697.60		\$333.86		\$1,215.61		\$500.00	\$1,388.50	\$5,135.57

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MECHANICAL													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia	20	Lnft	\$127.50	\$2,550.00	\$277.88	\$5,557.60	\$56.59	\$1,131.80	\$461.97 / Lnft	\$0.00	\$0.00	\$9,239.40
	Piping, water dist, conc pipe, gasket, 90" dia	2	Each	\$2.85	\$5.70	\$30.46	\$60.92	\$0.00	\$0.00	\$33.31 / Each	\$0.00	\$0.00	\$66.62
	MECHANICAL Total				\$2,555.70		\$5,618.52		\$1,131.80		\$0.00	\$0.00	\$9,306.02
	Project BL-L (90 inch RCP) Total				\$4,253.30		\$5,952.38		\$2,979.16		\$500.00	\$1,388.50	\$15,073.34
Project BL-L - Bridge													
01 - GENERAL REQUIREMENTS													
<i>01210 - Lifting and hoisting equipment</i>													
	Rent crane truck mounted, hydraulic, 55 ton capacity	30	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27048 / Day	\$27,048.00	\$0.00	\$27,048.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$0.00		\$27,048.00	\$0.00	\$27,048.00
02 SITE CONSTRUCTION													
<i>02280 - Sheet piling</i>													
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2700	Sqft	\$12.75	\$34,425.00	\$7.61	\$20,547.00	\$9.64	\$26,040.00	\$30 / Sqft	\$0.00	\$0.00	\$81,012.00
<i>02340 - Bedding</i>													
	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$7.64	\$397.28	\$20.73	\$1,077.96	\$1.73	\$90.00	\$30.1 / Cuyd	\$0.00	\$0.00	\$1,565.24
<i>02360 - Compaction</i>													
	Compaction, walk behind, vibrating plate 18" wide, subgrade	25	Cuyd	\$1.76	\$44.00	\$0.00	\$0.00	\$0.47	\$11.63	\$2.22 / Cuyd	\$0.00	\$0.00	\$55.63
	Compaction, walk behind, vibrating plate 18" wide, bedding	50	Cuyd	\$1.76	\$88.00	\$0.00	\$0.00	\$0.47	\$23.26	\$2.22 / Cuyd	\$0.00	\$0.00	\$111.26
<i>02420 - Excavating, structural</i>													
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	2000	Cuyd	\$4.67	\$9,340.00	\$0.00	\$0.00	\$6.13	\$12,264.00	\$10.8 / Cuyd	\$0.00	\$0.00	\$21,604.00
<i>02420 - Hauling</i>													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.41	\$14,066.00	\$0.00	\$0.00	\$9.45	\$24,575.76	\$14.86 / Cuyd	\$0.00	\$0.00	\$38,641.76
	Loading Trucks, F.E. Loader, 3 C.Y..	2600	Cuyd	\$0.66	\$1,716.00	\$0.00	\$0.00	\$1.13	\$2,947.25	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,663.25
	Disposal fee	130	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$13,650.00	\$13,650.00
	SITE CONSTRUCTION Total				\$60,076.28		\$21,624.96		\$65,951.90		\$0.00	\$0.00	\$161,303.14
03 - CONCRETE													
<i>03150 - Concrete, ready mix</i>													
	Wall, bridge	278	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$208,500.00	\$208,500.00
	Footing	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$24,000.00	\$24,000.00
	Elevated slab	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$650 / Cuyd	\$0.00	\$20,800.00	\$20,800.00
	Headwall	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$7,500.00	\$7,500.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$260,800.00	\$260,800.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
05 - METALS													
05010 - Misc Metals													
	Misc metals, allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
05040 - Structural steel members													
	Struct stl, WF, W 36 x 170	270	Lnft	\$4.08	\$1,101.60	\$103.70	\$27,999.00	\$1.71	\$463.00	\$109.49 / Lnft	\$0.00	\$0.00	\$29,563.60
	MECHANICAL Total				\$1,101.60		\$27,999.00		\$463.00		\$0.00	\$500.00	\$30,063.60
	Project Bridge Total				\$61,177.88		\$49,623.96		\$66,414.90		\$27,048.00	\$261,300.00	\$479,214.74
	Project BL-L Total				\$65,431.18		\$55,576.34		\$69,394.07		\$27,548.00	\$262,688.50	\$494,288.08
	Grand Total				\$65,431.18		\$55,576.34		\$69,394.07		\$27,548.00	\$262,688.50	\$480,638.08

Category	Percent	Amount
Labor	7.25%	\$65,431
Material	6.16%	\$55,576
Equipment	7.69%	\$69,394
Subcontractor	3.05%	\$27,548
Other	29.11%	\$262,689
Net Costs		\$480,638
Labor Mark-up	18.00%	\$11,778
Material Mark-up	15.00%	\$8,336
Subcontractor Mark-up	5.00%	\$1,377
Equipment Mark-up	15.00%	\$10,409
Sales tax (material)	7.75%	\$4,307
Sales tax (equipment)	7.75%	\$5,378
Material Shipping & Handling	2.50%	\$1,389
Worker's Travel/Subsistence	0.10%	\$65
Subtotal		\$523,679
Contractor General Conditions	12.00%	\$62,841
Subtotal		\$586,520
Earthquake Insurance	0.10%	\$587
Subtotal		\$587,107
Construction Contingency	20.00%	\$117,421
Subtotal		\$704,528
Bldg Risk, Liability Auto Ins.	2.00%	\$14,091
Subtotal		\$718,619
Performance Bond	1.00%	\$7,186
Payment Bond	1.00%	\$7,186
Subtotal		\$732,991
Engineering Fee	10.00%	\$48,064
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$791,055



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BM - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BM													
02 SITE CONSTRUCTION													
02310 - Fine grade													
	Fine grade under asphalt	560	Sqyd	\$0.77	\$431.20	\$0.00	\$0.00	\$0.16	\$91.85	\$0.93 / Sqyd	\$0.00	\$0.00	\$523.05
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	193	Cuyd	\$7.64	\$1,474.52	\$20.73	\$4,000.89	\$1.73	\$334.04	\$30.1 / Cuyd	\$0.00	\$0.00	\$5,809.45
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	1945	Cuyd	\$1.76	\$3,423.20	\$0.00	\$0.00	\$0.47	\$904.76	\$2.22 / Cuyd	\$0.00	\$0.00	\$4,327.96
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1945	Cuyd	\$2.70	\$5,251.50	\$0.00	\$0.00	\$0.72	\$1,391.11	\$3.41 / Cuyd	\$0.00	\$0.00	\$6,642.61
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1945	Cuyd	\$2.70	\$5,251.50	\$0.00	\$0.00	\$0.72	\$1,391.11	\$3.41 / Cuyd	\$0.00	\$0.00	\$6,642.61
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3000	Cuyd	\$1.56	\$4,680.00	\$0.00	\$0.00	\$1.17	\$3,520.53	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,200.53
02480 - Rip-rap													
	Rip-rap, energy dissipater	120	Sqyd	\$51.39	\$6,166.80	\$21.72	\$2,606.40	\$17.04	\$2,045.00	\$90.15 / Sqyd	\$0.00	\$0.00	\$10,818.20
02490 - Erosion control													
	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	577	Sqyd	\$0.73	\$421.21	\$6.88	\$3,969.76	\$0.93	\$537.05	\$8.54 / Sqyd	\$0.00	\$0.00	\$4,928.02
02840 - Landscaping													
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$27,099.93		\$10,577.05		\$10,215.46		\$500.00	\$5,728.00	\$54,120.44
03 - CONCRETE													
03150 - Concrete, ready mix													
	12'x5' RCB Culvert	366	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$274,500.00	\$274,500.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$282,000.00	\$282,000.00
	Project BM Total				\$27,099.93		\$10,577.05		\$10,215.46		\$500.00	\$287,728.00	\$336,120.44
	Grand Total				\$27,099.93		\$10,577.05		\$10,215.46		\$500.00	\$287,728.00	\$336,120.44

Category	Percent	Amount
Labor	3.00%	\$27,100
Material	1.17%	\$10,577
Equipment	1.13%	\$10,215
Subcontractor	0.06%	\$500
Other	31.89%	\$287,728
Net Costs		\$336,120
Labor Mark-up	18.00%	\$4,878
Material Mark-up	15.00%	\$1,587
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$1,532
Sales tax (material)	7.75%	\$820
Sales tax (equipment)	7.75%	\$792
Material Shipping & Handling	2.50%	\$264
Worker's Travel/Subsistence	0.10%	\$27
Subtotal		\$346,045
Contractor General Conditions	12.00%	\$41,525
Subtotal		\$387,571
Earthquake Insurance	0.10%	\$388
Subtotal		\$387,958
Construction Contingency	20.00%	\$77,592
Subtotal		\$465,550
Bldg Risk, Liability Auto Ins.	2.00%	\$9,311
Subtotal		\$474,861
Performance Bond	1.00%	\$4,749
Payment Bond	1.00%	\$4,749
Subtotal		\$484,358
Engineering Fee	10.00%	\$33,612
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$524,970



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/12/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BN - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BN													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, conc7" to 24" thick, rod reinforced	23	Cuyd	\$83.33	\$1,916.59	\$0.00	\$0.00	\$55.96	\$1,287.00	\$139.28 / Cuyd	\$0.00	\$0.00	\$3,203.59
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	800	Cuyd	\$1.46	\$1,168.00	\$0.00	\$0.00	\$4.58	\$3,661.60	\$6.03 / Cuyd	\$0.00	\$0.00	\$4,829.60
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	500	Cuyd	\$1.46	\$730.00	\$0.00	\$0.00	\$4.58	\$2,288.50	\$6.03 / Cuyd	\$0.00	\$0.00	\$3,018.50
02430 - Fill													
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$1.34	\$1,876.00	\$0.00	\$0.00	\$2.19	\$3,069.00	\$3.53 / Cuyd	\$0.00	\$0.00	\$4,945.00
02460 - Hauling													
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	23	Cuyd	\$6.61	\$152.03	\$0.00	\$0.00	\$9.45	\$217.40	\$16.06 / Cuyd	\$0.00	\$0.00	\$369.43
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.41	\$14,066.00	\$0.00	\$0.00	\$9.45	\$24,575.76	\$14.86 / Cuyd	\$0.00	\$0.00	\$38,641.76
	Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 lds/hr	1400	Cuyd	\$10.52	\$14,728.00	\$0.00	\$0.00	\$18.95	\$26,529.00	\$29.46 / Cuyd	\$0.00	\$0.00	\$41,257.00
	Loading Trucks, F.E. Loader, 3 C.Y..	2600	Cuyd	\$0.66	\$1,716.00	\$0.00	\$0.00	\$1.13	\$2,947.25	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,663.25
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	23	Cuyd	\$0.80	\$18.40	\$0.00	\$0.00	\$2.17	\$49.91	\$2.97 / Cuyd	\$0.00	\$0.00	\$68.31
	Loading Trucks, F.E. Loader, 3 C.Y..	1400	Cuyd	\$0.66	\$924.00	\$0.00	\$0.00	\$1.13	\$1,586.98	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,510.98
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1667	Sqyd	\$0.29	\$483.43	\$1.71	\$2,850.57	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$3,334.00
02480 - Rip-rap													
	Backing Material class #1	33	Cuyd	\$15.05	\$496.65	\$40.10	\$1,323.30	\$18.79	\$620.00	\$73.93 / Cuyd	\$0.00	\$0.00	\$2,439.95
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	155	Sqyd	\$51.39	\$7,965.45	\$119.00	\$18,445.00	\$18.78	\$2,910.89	\$189.16 / Sqyd	\$0.00	\$0.00	\$29,321.34
	Rip-rap, gabions, galv steel mesh boxes, stone filled	165	Cuyd	\$85.11	\$14,043.15	\$42.49	\$7,010.85	\$24.55	\$4,050.75	\$152.15 / Cuyd	\$0.00	\$0.00	\$25,104.75
	SITE CONSTRUCTION Total				\$60,283.70		\$29,629.72		\$73,794.05		\$0.00	\$2,100.00	\$165,807.47
03 - CONCRETE													
03150 - Concrete, ready mix													
	Apron wall	8	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$6,000.00	\$6,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$6,000.00	\$6,000.00
	Project BN Total				\$60,283.70		\$29,629.72		\$73,794.05		\$0.00	\$8,100.00	\$171,807.47
	Grand Total				\$60,283.70		\$29,629.72		\$73,794.05		\$0.00	\$8,100.00	\$171,807.47

Category	Percent	Amount
Labor	6.68%	\$60,284
Material	3.28%	\$29,630
Equipment	8.18%	\$73,794
Subcontractor	0.00%	\$0
Other	0.90%	\$8,100
Net Costs		\$171,807
Labor Mark-up	18.00%	\$10,851
Material Mark-up	15.00%	\$4,444
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,069
Sales tax (material)	7.75%	\$2,296
Sales tax (equipment)	7.75%	\$5,719
Material Shipping & Handling	2.50%	\$741
Worker's Travel/Subsistence	0.10%	\$60
Subtotal		\$206,988
Contractor General Conditions	12.00%	\$24,839
Subtotal		\$231,827
Earthquake Insurance	0.10%	\$232
Subtotal		\$232,059
Construction Contingency	25.00%	\$58,015
Subtotal		\$290,074
Bldg Risk, Liability Auto Ins.	2.00%	\$5,801
Subtotal		\$295,875
Performance Bond	1.00%	\$2,959
Payment Bond	1.00%	\$2,959
Subtotal		\$301,793
Engineering Fee	10.00%	\$17,181
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$360,973



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	3
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BNB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BNB													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	204	Sqyd	\$4.76	\$969.66	\$0.00	\$0.00	\$3.20	\$651.00	\$7.95 / Sqyd	\$0.00	\$0.00	\$1,620.66
02320 - Backfill													
	Backfill, dozer backfilling, trench, no compaction, inlet	11000	Cuyd	\$0.71	\$7,810.00	\$0.00	\$0.00	\$1.17	\$12,892.86	\$1.88 / Cuyd	\$0.00	\$0.00	\$20,702.86
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2", inlet	1467	Cuyd	\$7.64	\$11,207.88	\$20.73	\$30,410.91	\$1.73	\$2,539.04	\$30.1 / Cuyd	\$0.00	\$0.00	\$44,157.83
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, bedding	11000	Cuyd	\$1.76	\$19,360.00	\$0.00	\$0.00	\$0.47	\$5,116.90	\$2.22 / Cuyd	\$0.00	\$0.00	\$24,476.90
	Compaction, trench, walk behind, vib. plate, subgrade	667	Cuyd	\$1.76	\$1,173.39	\$0.00	\$0.00	\$0.47	\$310.13	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,483.52
	Compaction, trench, walk behind, vib.. Plate	11000	Cuyd	\$1.76	\$19,360.00	\$0.00	\$0.00	\$0.47	\$5,116.90	\$2.22 / Cuyd	\$0.00	\$0.00	\$24,476.90
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	17600	Cuyd	\$1.73	\$30,448.00	\$0.00	\$0.00	\$1.30	\$22,942.68	\$3.03 / Cuyd	\$0.00	\$0.00	\$53,390.68
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled	104	Cuyd	\$85.11	\$8,851.44	\$42.49	\$4,418.96	\$24.55	\$2,553.20	\$152.15 / Cuyd	\$0.00	\$0.00	\$15,823.60
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 6"	204	Sqyd	\$40.63	\$8,276.74	\$11.42	\$2,326.37	\$3.48	\$708.00	\$55.52 / Sqyd	\$0.00	\$0.00	\$11,311.11
	SITE CONSTRUCTION Total				\$107,457.11		\$37,156.24		\$52,830.70		\$0.00	\$0.00	\$197,444.04
03 - CONCRETE													
03150 - Concrete, ready mix													
	Headwall, with apron	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$3,750.00	\$3,750.00
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concrete													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia	3600	Lnft	\$119.16	\$428,976.00	\$259.70	\$934,920.00	\$40.50	\$145,800.00	\$419.36 / Lnft	\$0.00	\$0.00	\$1,509,696.00
	Piping, water dist, conc pipe, gasket, 84" dia	360	Each	\$2.85	\$131.10	\$30.46	\$1,401.16		\$0.00	\$33.31 / Each	\$0.00	\$0.00	\$1,532.26
15395 - Cleanouts													
	Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size	9	Each	\$2,015.79	\$18,142.11	\$3,049.62	\$27,446.58	\$0.00	\$0.00	\$5065.41 / Each	\$0.00	\$0.00	\$45,588.69
	MECHANICAL Total				\$447,249.21		\$963,767.74		\$145,800.00		\$0.00	\$0.00	\$1,556,816.95
	Project BNB Total				\$554,706.32		\$1,000,923.98		\$198,630.70		\$0.00	\$3,750.00	\$1,758,010.99
	Grand Total				\$554,706.32		\$1,000,923.98		\$198,630.70		\$0.00	\$3,750.00	\$1,758,010.99

Category	Percent	Amount
Labor	61.48%	\$554,706
Material	110.93%	\$1,000,924
Equipment	22.01%	\$198,631
Subcontractor	0.00%	\$0
Other	0.42%	\$3,750
Net Costs		\$1,758,011
Labor Mark-up	18.00%	\$99,847
Material Mark-up	15.00%	\$150,139
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$29,795
Sales tax (material)	7.75%	\$77,572
Sales tax (equipment)	7.75%	\$15,394
Material Shipping & Handling	2.50%	\$25,023
Worker's Travel/Subsistence	0.10%	\$555
Subtotal		\$2,156,335
Contractor General Conditions	12.00%	\$258,760
Subtotal		\$2,415,095
Earthquake Insurance	0.10%	\$2,415
Subtotal		\$2,417,510
Construction Contingency	20.00%	\$483,502
Subtotal		\$2,901,012
Bldg Risk, Liability Auto Ins.	2.00%	\$58,020
Subtotal		\$2,959,032
Performance Bond	1.00%	\$29,590
Payment Bond	1.00%	\$29,590
Subtotal		\$3,018,213
Engineering Fee	10.00%	\$175,801
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$3,204,014



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BP - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BP													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	4	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$527.00	\$131.75 / Day	\$0.00	\$0.00	\$527.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,027.00		\$0.00	\$0.00	\$1,027.00
02 SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	15	Sqyd	\$4.76	\$71.40	\$0.00	\$0.00	\$3.20	\$47.94	\$7.95 / Sqyd	\$0.00	\$0.00	\$119.34
	Asphalt disposal - hauling and disposal fee, 4" thick	15	Sqyd	\$0.89	\$13.35	\$4.30	\$64.50	\$1.20	\$17.93	\$6.38 / Sqyd	\$0.00	\$0.00	\$95.78
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	150	Lnft	\$0.78	\$117.00	\$0.15	\$22.50	\$0.40	\$60.70	\$1.33 / Lnft	\$0.00	\$0.00	\$200.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	150	Lnft	\$0.46	\$69.00	\$0.04	\$6.00	\$0.24	\$35.36	\$0.73 / Lnft	\$0.00	\$0.00	\$110.36
02310 - Fine grade													
	Fine grade under asphalt	15	Sqyd	\$0.77	\$11.55	\$0.00	\$0.00	\$0.16	\$2.46	\$0.93 / Sqyd	\$0.00	\$0.00	\$14.01
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	250	Cuyd	\$0.71	\$177.50	\$0.00	\$0.00	\$1.17	\$293.02	\$1.88 / Cuyd	\$0.00	\$0.00	\$470.52
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2", outlet	30	Cuyd	\$7.64	\$229.20	\$20.73	\$621.90	\$1.73	\$51.92	\$30.1 / Cuyd	\$0.00	\$0.00	\$903.02
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, subgrade outlet	250	Cuyd	\$1.76	\$440.00	\$0.00	\$0.00	\$0.47	\$116.29	\$2.22 / Cuyd	\$0.00	\$0.00	\$556.29
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	250	Cuyd	\$1.73	\$432.50	\$0.00	\$0.00	\$1.30	\$325.98	\$3.03 / Cuyd	\$0.00	\$0.00	\$758.48
02460 - Hauling													
	Disposal fee	5	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$525.00	\$525.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	100	Cuyd	\$0.97	\$97.00	\$0.00	\$0.00	\$2.09	\$209.29	\$3.06 / Cuyd	\$0.00	\$0.00	\$306.29
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	100	Cuyd	\$0.97	\$97.00	\$0.00	\$0.00	\$2.09	\$209.28	\$3.06 / Cuyd	\$0.00	\$0.00	\$306.28
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	100	Cuyd	\$7.18	\$718.00	\$3.00	\$300.00	\$15.45	\$1,544.64	\$25.62 / Cuyd	\$0.00	\$0.00	\$2,562.64
	Loading Trucks, F.E. Loader, 3 C.Y., stockpile	100	Cuyd	\$0.66	\$66.00	\$0.00	\$0.00	\$0.99	\$98.57	\$1.64 / Cuyd	\$0.00	\$0.00	\$164.57
	Loading Trucks, F.E. Loader, 3 C.Y.,	100	Cuyd	\$0.66	\$66.00	\$0.00	\$0.00	\$1.13	\$113.36	\$1.79 / Cuyd	\$0.00	\$0.00	\$179.36
	Loading Trucks, F.E. Loader, 3 C.Y., clear & grub	100	Cuyd	\$0.52	\$52.00	\$0.00	\$0.00	\$0.99	\$98.73	\$1.5 / Cuyd	\$0.00	\$0.00	\$150.73
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	400	Sqyd	\$0.29	\$116.00	\$1.71	\$684.00	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$800.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2,456.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 12"	400	Sqyd	\$0.62	\$248.00	\$10.65	\$4,260.00	\$0.90	\$359.82	\$12.16 / Sqyd	\$0.00	\$0.00	\$4,867.82

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02610 - Asphalt concrete pavement</i>													
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	15	Sqyd	\$31.92	\$478.80	\$7.22	\$108.30	\$2.73	\$40.96	\$41.87 / Sqyd	\$0.00	\$0.00	\$628.06
	<i>SITE CONSTRUCTION Total</i>				<i>\$10,291.30</i>		<i>\$10,316.20</i>		<i>\$6,082.25</i>		<i>\$0.00</i>	<i>\$3,139.00</i>	<i>\$29,828.75</i>
<i>03 - CONCRETE</i>													
<i>03150 - Concrete, ready mix</i>													
	Headwall, inlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	Culvert, outlet	30	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$22,500.00	\$22,500.00
	<i>CONCRETE Total</i>				<i>\$0.00</i>		<i>\$0.00</i>		<i>\$0.00</i>		<i>\$0.00</i>	<i>\$26,250.00</i>	<i>\$26,250.00</i>
	<i>Project BP Total</i>				<i>\$10,291.30</i>		<i>\$10,316.20</i>		<i>\$7,109.25</i>			<i>\$29,389.00</i>	<i>\$57,105.75</i>
	Grand Total				\$10,291.30		\$10,316.20		\$7,109.25		\$0.00	\$29,389.00	\$57,105.75

Category	Percent	Amount
Labor	1.14%	\$10,291
Material	1.14%	\$10,316
Equipment	0.79%	\$7,109
Subcontractor	0.00%	\$0
Other	3.26%	\$29,389
Net Costs		\$57,106
Labor Mark-up	18.00%	\$1,852
Material Mark-up	15.00%	\$1,547
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,066
Sales tax (material)	7.75%	\$800
Sales tax (equipment)	7.75%	\$551
Material Shipping & Handling	2.50%	\$258
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$63,191
Contractor General Conditions	12.00%	\$7,583
Subtotal		\$70,774
Earthquake Insurance	0.10%	\$71
Subtotal		\$70,844
Construction Contingency	25.00%	\$17,711
Subtotal		\$88,555
Bldg Risk, Liability Auto Ins.	2.00%	\$1,771
Subtotal		\$90,327
Performance Bond	1.00%	\$903
Payment Bond	1.00%	\$903
Subtotal		\$92,133
Engineering Fee	10.00%	\$5,711
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$114,844



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	11/14/2005
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BQ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project BQ													
02 - SITE CONSTRUCTION													
02210 - Clear and grub													
	Clear & grub, brush, including stumps	0	Acre	\$1,598.62	\$463.60	\$0.00	\$0.00	\$3,351.72	\$972.00	\$4950.34 / Acre	\$0.00	\$0.00	\$1,435.60
02310 - Fine grade													
	Fine grade, grade subgrade for base course, roadways	1067	Sqyd	\$0.19	\$202.73	\$0.00	\$0.00	\$0.16	\$175.00	\$0.35 / Sqyd	\$0.00	\$0.00	\$377.73
02330 - Backfill, structural													
	Backfill, from stockpile	140	Cuyd	\$0.52	\$72.80	\$0.00	\$0.00	\$0.36	\$50.40	\$0.88 / Cuyd	\$0.00	\$0.00	\$123.20
02360 - Compaction													
	Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes	3465	Cuyd	\$1.76	\$6,098.40	\$0.00	\$0.00	\$0.47	\$1,611.82	\$2.22 / Cuyd	\$0.00	\$0.00	\$7,710.22
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	119	Cuyd	\$1.76	\$209.44	\$0.00	\$0.00	\$0.47	\$55.36	\$2.22 / Cuyd	\$0.00	\$0.00	\$264.80
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	550	Cuyd	\$4.67	\$2,568.50	\$0.00	\$0.00	\$6.13	\$3,372.60	\$10.8 / Cuyd	\$0.00	\$0.00	\$5,941.10
02460 - Hauling													
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	140	Cuyd	\$0.97	\$135.80	\$0.00	\$0.00	\$2.09	\$293.00	\$3.06 / Cuyd	\$0.00	\$0.00	\$428.80
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	237	Cuyd	\$0.97	\$229.89	\$0.00	\$0.00	\$2.09	\$496.00	\$3.06 / Cuyd	\$0.00	\$0.00	\$725.89
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	616	Cuyd	\$7.18	\$4,422.88	\$3.00	\$1,848.00	\$15.45	\$9,515.00	\$25.62 / Cuyd	\$0.00	\$0.00	\$15,785.88
	Loading Trucks, F.E. Loader, 3 C.Y., stockpile	140	Cuyd	\$0.66	\$92.40	\$0.00	\$0.00	\$0.99	\$138.00	\$1.64 / Cuyd	\$0.00	\$0.00	\$230.40
	Loading Trucks, F.E. Loader, 3 C.Y..	616	Cuyd	\$0.66	\$406.56	\$0.00	\$0.00	\$1.13	\$698.27	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,104.83
	Loading Trucks, F.E. Loader, 3 C.Y., clear & grub	237	Cuyd	\$0.52	\$123.24	\$0.00	\$0.00	\$0.99	\$234.00	\$1.5 / Cuyd	\$0.00	\$0.00	\$357.24
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	290	Sqyd	\$0.29	\$84.10	\$1.71	\$495.90	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$580.00
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2,456.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 12"	667	Sqyd	\$0.62	\$413.54	\$10.65	\$7,103.55	\$0.90	\$600.00	\$12.16 / Sqyd	\$0.00	\$0.00	\$8,117.09
SITE CONSTRUCTION Total					\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78
Project BQ Total					\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78
Grand Total					\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78

Category	Percent	Amount
Labor	2.47%	\$22,315
Material	1.52%	\$13,696
Equipment	2.29%	\$20,667
Subcontractor	0.00%	\$0
Other	0.52%	\$4,714
Net Costs		\$61,393
Labor Mark-up	18.00%	\$4,017
Material Mark-up	15.00%	\$2,054
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,100
Sales tax (material)	7.75%	\$1,061
Sales tax (equipment)	7.75%	\$1,602
Material Shipping & Handling	2.50%	\$342
Worker's Travel/Subsistence	0.10%	\$22
Subtotal		\$73,592
Contractor General Conditions	12.00%	\$8,831
Subtotal		\$82,423
Earthquake Insurance	0.10%	\$82
Subtotal		\$82,505
Construction Contingency	25.00%	\$20,626
Subtotal		\$103,132
Bldg Risk, Liability Auto Ins.	2.00%	\$2,063
Subtotal		\$105,194
Performance Bond	1.00%	\$1,052
Payment Bond	1.00%	\$1,052
Subtotal		\$107,298
Engineering Fee	10.00%	\$6,139
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$120,438

Project Costs

Basin C



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	5/15/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project C1 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project C1													
01 - GENERAL REQUIREMENTS													
01210 - Lifting and hoisting equi													
	Rent crane truck mounted, hydraulic, 55 ton	45	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$40,500.00	\$1801.6 / Day	\$40,572.00	\$0.00	\$81,072.00
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, conc7" to 24" thick, rod reinforced	93	Cuyd	\$87.50	\$8,137.50	\$0.00	\$0.00	\$58.74	\$5,462.82	\$146.24 / Cuyd	\$0.00	\$0.00	\$13,600.32
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.41	\$1,671.69	\$0.00	\$0.00	\$9.45	\$2,920.73	\$14.86 / Cuyd	\$0.00	\$0.00	\$4,592.42
	Loading Trucks, F.E. Loader, 3 C.Y..	309	Cuyd	\$0.66	\$203.94	\$0.00	\$0.00	\$1.13	\$350.27	\$1.79 / Cuyd	\$0.00	\$0.00	\$554.21
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
02280 - Sheet piling													
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2,700	Sqft	\$6.07	\$16,389.00	\$5.05	\$13,635.00	\$4.59	\$12,400.00	\$15.71 / Sqft	\$0.00	\$0.00	\$42,424.00
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	186	Cuyd	\$0.71	\$132.06	\$0.00	\$0.00	\$1.17	\$218.01	\$1.88 / Cuyd	\$0.00	\$0.00	\$350.07
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	63	Cuyd	\$8.02	\$505.26	\$32.00	\$2,016.00	\$1.83	\$115.00	\$41.85 / Cuyd	\$0.00	\$0.00	\$2,636.26
02360 - Compaction													
	Compaction, walk behind, vibrating plate 18" wide, subgrade	63	Cuyd	\$2.63	\$165.69	\$0.00	\$0.00	\$0.70	\$44.10	\$3.33 / Cuyd	\$0.00	\$0.00	\$209.79
	Compaction, walk behind, vibrating plate 18" wide, bedding	63	Cuyd	\$2.63	\$165.69	\$0.00	\$0.00	\$0.70	\$44.10	\$3.33 / Cuyd	\$0.00	\$0.00	\$209.79
	Compaction, walk behind, vibrating plate 18" wide, backfill	186	Cuyd	\$2.63	\$489.18	\$0.00	\$0.00	\$0.70	\$130.20	\$3.33 / Cuyd	\$0.00	\$0.00	\$619.38
	Compaction, riding, vibrating roller, 6" lifts, fill	9,827	Cuyd	\$0.36	\$3,537.72	\$0.00	\$0.00	\$0.28	\$2,783.00	\$0.64 / Cuyd	\$0.00	\$0.00	\$6,320.72
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	309	Cuyd	\$4.90	\$1,514.10	\$0.00	\$0.00	\$6.44	\$1,989.96	\$11.34 / Cuyd	\$0.00	\$0.00	\$3,504.06
02430 - Fill													
	Fill, spread dumped material, by dozer, no compaction	9,827	Cuyd	\$0.68	\$6,682.36	\$0.00	\$0.00	\$1.11	\$10,889.38	\$1.79 / Cuyd	\$0.00	\$0.00	\$17,571.74
	Fill, spread dumped material, by dozer, no compaction, berm	74	Cuyd	\$0.68	\$50.32	\$0.00	\$0.00	\$1.11	\$82.00	\$1.79 / Cuyd	\$0.00	\$0.00	\$132.32
	Granular fill	9,827	Cuyd	\$0.00	\$0.00	\$14.20	\$139,543.40	\$0.00	\$0.00	\$14.2 / Cuyd	\$0.00	\$0.00	\$139,543.40
	Granular fill, berm	74	Cuyd	\$0.00	\$0.00	\$14.20	\$1,050.80	\$0.00	\$0.00	\$14.2 / Cuyd	\$0.00	\$0.00	\$1,050.80
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.68	\$1,755.12	\$0.00	\$0.00	\$9.92	\$3,066.74	\$15.6 / Cuyd	\$0.00	\$0.00	\$4,821.86
	Loading Trucks, F.E. Loader, 3 C.Y..	309	Cuyd	\$0.69	\$213.21	\$0.00	\$0.00	\$1.19	\$368.81	\$1.88 / Cuyd	\$0.00	\$0.00	\$582.02
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	93	Cuyd	\$5.68	\$528.24	\$0.00	\$0.00	\$9.92	\$923.00	\$15.6 / Cuyd	\$0.00	\$0.00	\$1,451.24
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	93	Cuyd	\$0.69	\$64.17	\$0.00	\$0.00	\$1.19	\$111.00	\$1.88 / Cuyd	\$0.00	\$0.00	\$175.17
02480 - Rip-rap													
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	1,334	Sqyd	\$53.95	\$71,969.30	\$15.85	\$21,143.90	\$17.90	\$23,874.60	\$87.7 / Sqyd	\$0.00	\$0.00	\$116,987.80
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 60" deep	378	Sqyd	\$0.84	\$317.52	\$10.75	\$4,063.50	\$1.07	\$404.46	\$12.66 / Sqyd	\$0.00	\$0.00	\$4,785.48
02640 - Lines on pav't													
	Painting lines, thermoplastic, white or yellow, 6" wide	204	Lnft	\$0.14	\$28.56	\$1.07	\$218.28	\$0.08	\$16.32	\$0.14 / Lnft	\$0.00	\$0.00	\$263.16

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02660 - Sidewlks, drivwys, & patios</i>													
	Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544	Sqft	\$1.87	\$1,017.28	\$1.45	\$788.80	\$0.00	\$0.00	\$3.32 / Sqft	\$0.00	\$0.00	\$1,806.08
	Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544	Sqft	\$0.46	\$250.24	\$0.42	\$228.48	\$0.04	\$20.13	\$0.92 / Sqft	\$0.00	\$0.00	\$498.85
<i>02840 - Landscaping</i>													
	Erosion Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$30,000.00	\$0.00	\$30,000.00
	Traffic Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	SITE CONSTRUCTION Total				\$115,788.15		\$182,688.16		\$106,714.62		\$70,572.00	\$64,200.00	\$539,962.93
<i>03 - CONCRETE</i>													
<i>03150 - Concrete, ready mix</i>													
	5-12'x12' RCB Culverts	403	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$382,850.00	\$382,850.00
	Headwall, inlet	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$19,950.00	\$19,950.00
	Headwall, outlet	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$26,600.00	\$26,600.00
	Wall, bridge	163	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$154,850.00	\$154,850.00
	Footing	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$9,500.00	\$9,500.00
	Elevated slab	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$26,600.00	\$26,600.00
	Wingwall	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$19,950.00	\$19,950.00
	Slab on Grade	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$26,600.00	\$26,600.00
	Slab on Grade for roadway	202	Cuyd	\$0.00	\$0.00	\$125.00	\$25,250.00	\$0.00	\$0.00	\$1075 / Cuyd	\$0.00	\$191,900.00	\$217,150.00
	CONCRETE Total				\$0.00		\$25,250.00		\$0.00		\$0.00	\$858,800.00	\$884,050.00
<i>05 - METALS</i>													
<i>05080 - Railings, industrial</i>													
	Railing, pipe, aluminum, 3 rail, clear anodized	272	Lnft	\$14.38	\$3,911.36	\$45.95	\$12,498.40	\$0.92	\$251.06	\$0.06 / Lnft	\$0.00	\$0.00	\$16,660.82
	METALS Total				\$3,911.36		\$12,498.40		\$251.06		\$0.00	\$0.00	\$16,660.82
<i>07 - THERMAL/MOIST PROTECTION</i>													
<i>07100 - Building paper</i>													
0020	Building paper, polyethylene vapor barrier, std, .010" thick, berm	28	Cuyd	\$10.95	\$306.60	\$5.35	\$149.80	\$0.00	\$0.00	\$16.3 / Cuyd	\$0.00	\$0.00	\$456.40
	THERMAL/MOIST PROTECTION Total				\$306.60		\$149.80		\$0.00		\$0.00	\$0.00	\$456.40
	Project C1 Total				\$115,788.15		\$207,938.16		\$106,714.62		\$70,572.00	\$923,000.00	\$1,441,130.15
	Grand Total				\$115,788.15		\$207,938.16		\$106,714.62		\$70,572.00	\$923,000.00	\$1,424,012.93

Category	Percent	Amount
Labor	8.13%	\$115,788
Material	14.60%	\$207,938
Equipment	7.49%	\$106,715
Subcontractor	4.96%	\$70,572
Other	64.82%	\$923,000
Net Costs		\$1,424,013
Labor Mark-up	18.00%	\$20,842
Material Mark-up	15.00%	\$31,191
Subcontractor Mark-up	5.00%	\$3,529
Equipment Mark-up	15.00%	\$16,007
Sales tax (material)	7.75%	\$16,115
Sales tax (equipment)	7.75%	\$8,270
Material Shipping & Handling	2.50%	\$5,198
Worker's Travel/Subsistence	0.10%	\$116
Subtotal		\$1,525,281
Contractor General Conditions	12.00%	\$183,034
Subtotal		\$1,708,315
Earthquake Insurance	0.10%	\$1,708
Subtotal		\$1,710,023
Construction Contingency	35.00%	\$598,508
Subtotal		\$2,308,531
Bldg Risk, Liability Auto Ins.	2.00%	\$46,171
Subtotal		\$2,354,702
Performance Bond	1.00%	\$23,547
Payment Bond	1.00%	\$23,547
Subtotal		\$2,401,796
Engineering Fee	10.00%	\$142,401
Environ Permitting/Monitoring (L.S.)	-	\$550,000
Total Estimate		\$3,094,197



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project C2 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project C2													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site dml, conc7" to 24" thick, rod reinforced	10	Cuyd	\$83.33	\$833.30	\$0.00	\$0.00	\$55.96	\$559.57	\$139.28 / Cuyd	\$0.00	\$0.00	\$1,392.87
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	10	Cuyd	\$5.41	\$54.10	\$0.00	\$0.00	\$9.45	\$94.52	\$14.86 / Cuyd	\$0.00	\$0.00	\$148.62
	Loading Trucks, F.E. Loader, 3 C.Y..	10	Cuyd	\$0.66	\$6.60	\$0.00	\$0.00	\$1.13	\$11.34	\$1.79 / Cuyd	\$0.00	\$0.00	\$17.94
	Disposal fee	1	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$105.00	\$105.00
02280 - Sheet piling													
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,500	Sqft	\$12.75	\$19,125.00	\$7.61	\$11,415.00	\$9.64	\$14,466.67	\$30 / Sqft	\$0.00	\$0.00	\$45,006.67
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	347	Cuyd	\$0.71	\$246.37	\$0.00	\$0.00	\$1.17	\$406.71	\$1.88 / Cuyd	\$0.00	\$0.00	\$653.08
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$7.64	\$397.28	\$20.73	\$1,077.96	\$1.73	\$90.00	\$30.1 / Cuyd	\$0.00	\$0.00	\$1,565.24
02360 - Compaction													
	Compaction, walk behind, vibrating plate 18" wide, subgrade	33	Cuyd	\$1.76	\$58.08	\$0.00	\$0.00	\$0.47	\$15.35	\$2.22 / Cuyd	\$0.00	\$0.00	\$73.43
	Compaction, walk behind, vibrating plate 18" wide, bedding	65	Cuyd	\$1.76	\$114.40	\$0.00	\$0.00	\$0.47	\$30.24	\$2.22 / Cuyd	\$0.00	\$0.00	\$144.64
	Compaction, walk behind, vibrating plate 18" wide, backfill	347	Cuyd	\$1.76	\$610.72	\$0.00	\$0.00	\$0.47	\$161.41	\$2.22 / Cuyd	\$0.00	\$0.00	\$772.13
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	640	Cuyd	\$6.48	\$4,147.20	\$0.00	\$0.00	\$4.89	\$3,129.87	\$11.37 / Cuyd	\$0.00	\$0.00	\$7,277.07
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	293	Cuyd	\$5.41	\$1,585.13	\$0.00	\$0.00	\$9.45	\$2,769.50	\$14.86 / Cuyd	\$0.00	\$0.00	\$4,354.63
	Loading Trucks, F.E. Loader, 3 C.Y..	293	Cuyd	\$0.66	\$193.38	\$0.00	\$0.00	\$1.13	\$332.13	\$1.79 / Cuyd	\$0.00	\$0.00	\$525.51
	Disposal fee	15	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,575.00	\$1,575.00
02840 - Landscaping													
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	SITE CONSTRUCTION Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$6,558.00	\$68,489.83
03 - CONCRETE													
03150 - Concrete, ready mix													
	4'x10' RCB Culvert	170	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$127,500.00	\$127,500.00
	Headwall, inlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	Headwall, outlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$135,000.00	\$135,000.00
	Project C2 Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$141,558.00	\$203,489.83
	Grand Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$141,558.00	\$203,489.83

Category	Percent	Amount
Labor	13.45%	\$27,372
Material	6.14%	\$12,493
Equipment	10.84%	\$22,067
Subcontractor	0.00%	\$0
Other	69.57%	\$141,558
Net Costs		\$203,490
Labor Mark-up	18.00%	\$4,927
Material Mark-up	15.00%	\$1,874
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,310
Sales tax (material)	7.75%	\$968
Sales tax (equipment)	7.75%	\$1,710
Material Shipping & Handling	2.50%	\$312
Worker's Travel/Subsistence	0.10%	\$27
Subtotal		\$216,619
Contractor General Conditions	12.00%	\$25,994
Subtotal		\$242,613
Earthquake Insurance	0.10%	\$243
Subtotal		\$242,856
Construction Contingency	25.00%	\$60,714
Subtotal		\$303,570
Bldg Risk, Liability Auto Ins.	2.00%	\$6,071
Subtotal		\$309,641
Performance Bond	1.00%	\$3,096
Payment Bond	1.00%	\$3,096
Subtotal		\$315,834
Engineering Fee	10.00%	\$20,349
Environ Permitting/Monitoring (L.S.)	-	\$300,000
Total Estimate		\$636,183



City of Carlsbad, Drainage Master Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Sharon Bray
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	11/14/2005
Estimate Revision Number::	03
Estimate Revision Date::	10/9/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	10/16/2006

PROJECT LOCATION / PROCESS AREA

Project CA - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project CA													
02 - SITE CONSTRUCTION													
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	100	Cuyd	\$0.71	\$71.00	\$0.00	\$0.00	\$1.17	\$117.21	\$1.88 / Cuyd	\$0.00	\$0.00	\$188.21
02360 - Compaction													
	Compaction, walk behind, vibrating plate 18" wide, subgrade	50	Cuyd	\$1.76	\$88.00	\$0.00	\$0.00	\$0.47	\$23.26	\$2.22 / Cuyd	\$0.00	\$0.00	\$111.26
	Compaction, walk behind, vibrating plate 18" wide, bedding	377	Cuyd	\$1.76	\$663.52	\$0.00	\$0.00	\$0.47	\$175.37	\$2.22 / Cuyd	\$0.00	\$0.00	\$838.89
02420 - Excavating, structural													
	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	377	Cuyd	\$6.48	\$2,442.96	\$0.00	\$0.00	\$4.89	\$1,843.69	\$11.37 / Cuyd	\$0.00	\$0.00	\$4,286.65
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	600	Cuyd	\$5.41	\$3,246.00	\$0.00	\$0.00	\$9.45	\$5,671.33	\$14.86 / Cuyd	\$0.00	\$0.00	\$8,917.33
	Loading Trucks, F.E. Loader, 3 C.Y..	600	Cuyd	\$0.66	\$396.00	\$0.00	\$0.00	\$1.13	\$680.14	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,076.14
	SITE CONSTRUCTION Total				\$6,907.48		\$0.00		\$8,510.99		\$0.00	\$0.00	\$15,418.47
03 - CONCRETE													
03090 - Forms place, slab grade													
	Forms in place, SOG, edge forms, over 12", wood	1,800	Sfca	\$4.31	\$7,758.00	\$2.57	\$4,626.00	\$0.00	\$0.00	\$6.88 / Sfca	\$0.00	\$0.00	\$12,384.00
03110 - Forms in place, walls													
	Forms in place, walls, job built plyform, to 8' high, below gr	8,400	Sfca	\$6.35	\$53,340.00	\$3.25	\$27,300.00	\$0.00	\$0.00	\$9.6 / Sfca	\$0.00	\$0.00	\$80,640.00
03140 - Welded wire fabric													
	Welded wire fabric, 10/10 gage, SOG	18	Csf	\$36.61	\$658.98	\$29.41	\$529.38	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$1,188.36
	Welded wire fabric, 10/10 gage, Walls	84	Csf	\$36.61	\$3,075.24	\$29.41	\$2,470.44	\$0.00	\$0.00	\$66.02 / Csf	\$0.00	\$0.00	\$5,545.68
03150 - Concrete, ready mix													
	Concrete, ready mix, regular weight, 4000 psi	300	Cuyd	\$0.00	\$0.00	\$120.00	\$36,000.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$36,000.00
03170 - Placing concrete													
	Placing conc, incl vib, slab on grade, 6" thick, pumped	34	Cuyd	\$15.89	\$540.26	\$0.00	\$0.00	\$5.08	\$172.76	\$20.97 / Cuyd	\$0.00	\$0.00	\$713.02
	Placing conc, incl vib, walls, 8" thick, pumped	160	Cuyd	\$29.41	\$4,705.60	\$0.00	\$0.00	\$9.42	\$1,507.03	\$38.82 / Cuyd	\$0.00	\$0.00	\$6,212.63
03180 - Finishing floors													
	Finishing slabs, break ties, forms & patch voids	1,800	Sqft	\$1.04	\$1,872.00	\$0.03	\$54.00	\$0.00	\$0.00	\$1.07 / Sqft	\$0.00	\$0.00	\$1,926.00
	Finishing floors, monolithic, machine trowel, for finish floor	1,800	Sqft	\$0.60	\$1,080.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.6 / Sqft	\$0.00	\$0.00	\$1,080.00
03190 - Finishing walls													
	Finishing slabs, break ties, forms & patch voids	8,400	Sqft	\$1.04	\$8,736.00	\$0.03	\$252.00	\$0.00	\$0.00	\$1.07 / Sqft	\$0.00	\$0.00	\$8,988.00
	Finishing walls, carborundum rub, wet rub	8,400	Sqft	\$1.90	\$15,960.00	\$0.03	\$252.00	\$0.00	\$0.00	\$1.93 / Sqft	\$0.00	\$0.00	\$16,212.00
	MECHANICAL Total				\$97,726.08		\$71,483.82		\$1,679.78		\$0.00	\$0.00	\$170,889.68
	Project CA Total				\$104,633.56		\$71,483.82		\$10,190.77		\$0.00	\$0.00	\$186,308.15
	Grand Total				\$104,633.56		\$71,483.82		\$10,190.77		\$0.00	\$0.00	\$186,308.15

Category	Percent	Amount
Labor	56.16%	\$104,634
Material	38.37%	\$71,484
Equipment	5.47%	\$10,191
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$186,308
Labor Mark-up	18.00%	\$18,834
Material Mark-up	15.00%	\$10,723
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,529
Sales tax (material)	7.75%	\$5,540
Sales tax (equipment)	7.75%	\$790
Material Shipping & Handling	2.50%	\$1,787
Worker's Travel/Subsistence	0.10%	\$105
Subtotal		\$225,615
Contractor General Conditions	12.00%	\$27,074
Subtotal		\$252,689
Earthquake Insurance	0.10%	\$253
Subtotal		\$252,941
Construction Contingency	25.00%	\$63,235
Subtotal		\$316,177
Bldg Risk, Liability Auto Ins.	2.00%	\$6,324
Subtotal		\$322,500
Performance Bond	1.00%	\$3,225
Payment Bond	1.00%	\$3,225
Subtotal		\$328,950
Engineering Fee	10.00%	\$18,631
Environ Permitting/Monitoring (L.S.)	-	\$174,000
Total Estimate		\$521,581

Project Costs

Basin D



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	5/24/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DBA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DBA													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$131.75	\$131.75 / Day	\$0.00	\$0.00	\$131.75
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$131.75		\$0.00	\$0.00	\$131.75
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	4	Clf	\$2.34	\$8.42	\$3.06	\$11.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$19.44
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" thk	130	Sqyd	\$4.76	\$618.80	\$0.00	\$0.00	\$3.20	\$415.44	\$7.95 / Sqyd	\$0.00	\$0.00	\$1,034.24
	Asphalt disposal - hauling and disposal fee, 4" thick	130	Sqyd	\$0.89	\$115.70	\$4.30	\$559.00	\$1.20	\$155.35	\$6.38 / Sqyd	\$0.00	\$0.00	\$830.05
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	720	Lnft	\$0.78	\$561.60	\$0.15	\$108.00	\$0.40	\$291.38	\$1.33 / Lnft	\$0.00	\$0.00	\$960.98
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	720	Lnft	\$0.46	\$331.20	\$0.04	\$28.80	\$0.24	\$169.75	\$0.73 / Lnft	\$0.00	\$0.00	\$529.75
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	444	Cuyd	\$0.71	\$315.52	\$0.00	\$0.00	\$1.17	\$520.87	\$1.88 / Cuyd	\$0.00	\$0.00	\$836.40
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	265	Cuyd	\$7.64	\$2,024.60	\$20.73	\$5,493.45	\$1.73	\$458.65	\$30.1 / Cuyd	\$0.00	\$0.00	\$7,976.70
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, bedding	228	Cuyd	\$1.76	\$401.10	\$0.00	\$0.00	\$0.47	\$106.01	\$2.22 / Cuyd	\$0.00	\$0.00	\$507.12
	Compaction, trench, walk behind, vib. plate, subgrade	37	Cuyd	\$1.76	\$64.59	\$0.00	\$0.00	\$0.47	\$17.07	\$2.22 / Cuyd	\$0.00	\$0.00	\$81.66
	Compaction, trench, walk behind, vib. plate, backfill	400	Cuyd	\$1.76	\$704.00	\$0.00	\$0.00	\$0.47	\$186.07	\$2.22 / Cuyd	\$0.00	\$0.00	\$890.07
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	693	Cuyd	\$1.73	\$1,199.41	\$0.00	\$0.00	\$1.30	\$903.76	\$3.03 / Cuyd	\$0.00	\$0.00	\$2,103.17
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	422	Cuyd	\$5.41	\$2,284.10	\$0.00	\$0.00	\$9.45	\$3,990.73	\$14.86 / Cuyd	\$0.00	\$0.00	\$6,274.83
	Loading Trucks, F.E. Loader, 3 C.Y..	422	Cuyd	\$0.66	\$278.65	\$0.00	\$0.00	\$1.13	\$478.59	\$1.79 / Cuyd	\$0.00	\$0.00	\$757.24
02570 - Catch basins or manholes													
	Junction structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
02600 - Base course													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	130	Sqyd	\$0.73	\$94.90	\$6.88	\$894.40	\$0.93	\$121.00	\$8.54 / Sqyd	\$0.00	\$0.00	\$1,110.30
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	130	Sqyd	\$31.92	\$4,149.60	\$7.22	\$938.60	\$2.73	\$354.95	\$41.87 / Sqyd	\$0.00	\$0.00	\$5,443.15
02900 - Pot Holing													
	Pot Holing - pipe lines	4	Each	\$222.90	\$891.60	\$0.00	\$0.00	\$28.21	\$112.86	\$251.11 / Each	\$0.00	\$0.00	\$1,004.46
	SITE CONSTRUCTION Total				\$15,282.85		\$18,033.27		\$8,282.49		\$0.00	\$0.00	\$41,598.60

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>15 - MECHANICAL</i>													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	360	Lnft	\$30.95	\$11,142.00	\$22.96	\$8,265.60	\$10.27	\$3,697.20	\$64.18 / Lnft	\$0.00	\$0.00	\$23,104.80
<i>15395 - Cleanouts</i>													
	Cleanouts, flr type, rnd top, xtra hvy dty, 30" pipe size	2	Each	\$719.92	\$1,439.84	\$1,090.65	\$2,181.30	\$0.00	\$0.00	\$1810.57 / Each	\$0.00	\$0.00	\$3,621.14
	<i>MECHANICAL Total</i>				<i>\$12,581.84</i>		<i>\$10,446.90</i>		<i>\$3,697.20</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,725.94</i>
	<i>Project DBA Total</i>				<i>\$27,864.69</i>		<i>\$28,480.17</i>		<i>\$12,111.44</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,456.29</i>
	Grand Total				\$27,864.69		\$28,480.17		\$12,111.44		\$0.00	\$0.00	\$68,456.29

Category	Percent	Amount
Labor	40.70%	\$27,865
Material	41.60%	\$28,480
Equipment	17.69%	\$12,111
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$68,456
Labor Mark-up	18.00%	\$5,016
Material Mark-up	15.00%	\$4,272
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,817
Sales tax (material)	7.75%	\$2,207
Sales tax (equipment)	7.75%	\$939
Material Shipping & Handling	2.50%	\$712
Worker's Travel/Subsistence	0.10%	\$28
Subtotal		\$83,446
Contractor General Conditions	12.00%	\$10,014
Subtotal		\$93,460
Earthquake Insurance	0.10%	\$93
Subtotal		\$93,553
Construction Contingency	25.00%	\$23,388
Subtotal		\$116,942
Bldg Risk, Liability Auto Ins.	2.00%	\$2,339
Subtotal		\$119,281
Performance Bond	1.00%	\$1,193
Payment Bond	1.00%	\$1,193
Subtotal		\$121,666
Engineering Fee	10.00%	\$6,846
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$138,512



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	03
Estimate Revision Date::	5/24/2006
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Bob Ferguson
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DBB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DBB													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 7200 lbs, 6'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$1,160.00	\$116 / Day	\$0.00	\$0.00	\$1,160.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,660.00		\$0.00	\$0.00	\$1,660.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	7	Clf	\$2.34	\$16.85	\$3.06	\$22.03	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$38.88
02060 - Site demolition													
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	482	Sqyd	\$4.76	\$2,294.32	\$0.00	\$0.00	\$3.20	\$1,540.34	\$7.95 / Sqyd	\$0.00	\$0.00	\$3,834.66
	Asphalt disposal - hauling and disposal fee, 4" thick	482	Sqyd	\$0.89	\$428.98	\$4.30	\$2,072.60	\$1.20	\$576.00	\$6.38 / Sqyd	\$0.00	\$0.00	\$3,077.58
02170 - Saw cutting													
	Saw cutting, asphalt, up to 3" deep	1450	Lnft	\$0.78	\$1,131.00	\$0.15	\$217.50	\$0.40	\$586.81	\$1.33 / Lnft	\$0.00	\$0.00	\$1,935.31
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1450	Lnft	\$0.46	\$667.00	\$0.04	\$58.00	\$0.24	\$341.85	\$0.73 / Lnft	\$0.00	\$0.00	\$1,066.85
02310 - Fine grade													
	Fine grade, fine grade granular base for sidewalks and bikeways	482	Sqyd	\$0.96	\$462.72	\$0.00	\$0.00	\$0.16	\$79.05	\$1.12 / Sqyd	\$0.00	\$0.00	\$541.77
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	530	Cuyd	\$7.64	\$4,049.20	\$20.73	\$10,986.90	\$1.73	\$917.31	\$30.1 / Cuyd	\$0.00	\$0.00	\$15,953.41
	Bedding, crushed stone 3/4" to 1/2"	577	Cuyd	\$7.64	\$4,408.28	\$20.73	\$11,961.21	\$1.73	\$998.65	\$30.1 / Cuyd	\$0.00	\$0.00	\$17,368.14
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	440	Cuyd	\$1.76	\$774.40	\$0.00	\$0.00	\$0.47	\$204.68	\$2.22 / Cuyd	\$0.00	\$0.00	\$979.08
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	73	Cuyd	\$2.70	\$197.91	\$0.00	\$0.00	\$0.72	\$52.43	\$3.41 / Cuyd	\$0.00	\$0.00	\$250.34
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	456	Cuyd	\$2.70	\$1,230.66	\$0.00	\$0.00	\$0.72	\$326.00	\$3.41 / Cuyd	\$0.00	\$0.00	\$1,556.66
02450 - Excavating, trench													
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1027	Cuyd	\$1.73	\$1,776.71	\$0.00	\$0.00	\$1.30	\$1,338.76	\$3.03 / Cuyd	\$0.00	\$0.00	\$3,115.47
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1181	Cuyd	\$5.41	\$6,389.21	\$0.00	\$0.00	\$9.45	\$11,163.07	\$14.86 / Cuyd	\$0.00	\$0.00	\$17,552.28
	Loading Trucks, F.E. Loader, 3 C.Y..	1181	Cuyd	\$0.66	\$779.46	\$0.00	\$0.00	\$1.13	\$1,338.73	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,118.19
	Disposal fee	59	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$6,200.25	\$6,200.25
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Catch basins or manholes, concrete, precast, 8' I.D., 8' deep	3	Each	\$1,432.80	\$4,298.40	\$3,130.18	\$9,390.54	\$325.00	\$975.00	\$4887.98 / Each	\$0.00	\$0.00	\$14,663.94
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3	Each	\$143.28	\$429.84	\$177.27	\$531.81	\$32.50	\$97.50	\$353.05 / Each	\$0.00	\$0.00	\$1,059.15
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$146.95	\$440.85	\$179.54	\$538.62	\$50.00	\$150.00	\$376.49 / Each	\$0.00	\$0.00	\$1,129.47
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$132.85	\$398.55	\$61.00	\$183.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$581.55
	Catch basins or manholes, steps, standard sizes, aluminum	10	Each	\$8.94	\$89.40	\$17.05	\$170.50	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$259.90
	Junction structure	1	Each	\$619.52	\$619.52	\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
02610 - Asphalt concrete pavement													
	Asphaltic conc pavement, pavement replacement over trench, 4"	482	Sqyd	\$31.92	\$15,385.44	\$7.22	\$3,480.04	\$2.73	\$1,316.06	\$41.87 / Sqyd	\$0.00	\$0.00	\$20,181.54

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
<i>02640 - Lines on pav't</i>													
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	720	Lnft	\$0.11	\$79.20	\$0.13	\$93.60	\$0.07	\$50.40	\$0.31 / Lnft	\$0.00	\$0.00	\$223.20
<i>02840 - Landscaping</i>													
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
<i>02900 - Pot Holing</i>													
	Pot Holing - pipe lines	28	Each	\$222.90	\$6,241.20	\$0.00	\$0.00	\$28.21	\$790.00	\$251.11 / Each	\$0.00	\$0.00	\$7,031.20
	<i>SITE CONSTRUCTION Total</i>				<i>\$52,589.10</i>		<i>\$44,706.35</i>		<i>\$22,842.63</i>		<i>\$5,000.00</i>	<i>\$13,692.25</i>	<i>\$138,830.33</i>
<i>03 - CONCRETE</i>													
<i>03330 - Patching concrete</i>													
	80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$1,500.00	\$1,500.00
	<i>CONCRETE Total</i>				<i>\$0.00</i>		<i>\$0.00</i>		<i>\$0.00</i>		<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$1,500.00</i>
<i>15 - MECHANICAL</i>													
<i>15090 - Pipe, drng&sewage, concret</i>													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	720	Lnft	\$30.95	\$22,284.00	\$22.96	\$16,531.20	\$10.27	\$7,394.40	\$64.18 / Lnft	\$0.00	\$0.00	\$46,209.60
	Piping, water dist, conc pipe, gasket, 36" dia	72	Each	\$2.85	\$205.20	\$5.53	\$398.16	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$603.36
	<i>MECHANICAL Total</i>				<i>\$22,489.20</i>		<i>\$16,929.36</i>		<i>\$7,394.40</i>		<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,812.96</i>
	<i>Project DBB Total</i>				<i>\$75,078.30</i>		<i>\$61,635.71</i>		<i>\$31,897.03</i>		<i>\$5,000.00</i>	<i>\$15,192.25</i>	<i>\$188,803.29</i>
	<i>Grand Total</i>				<i>\$75,078.30</i>		<i>\$61,635.71</i>		<i>\$31,897.03</i>		<i>\$5,000.00</i>	<i>\$15,192.25</i>	<i>\$188,803.29</i>

Category	Percent	Amount
Labor	39.77%	\$75,078
Material	32.65%	\$61,636
Equipment	16.89%	\$31,897
Subcontractor	2.65%	\$5,000
Other	8.05%	\$15,192
Net Costs		\$188,803
Labor Mark-up	18.00%	\$13,514
Material Mark-up	15.00%	\$9,245
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$4,785
Sales tax (material)	7.75%	\$4,777
Sales tax (equipment)	7.75%	\$2,472
Material Shipping & Handling	2.50%	\$1,541
Worker's Travel/Subsistence	0.10%	\$75
Subtotal		\$225,462
Contractor General Conditions	12.00%	\$27,055
Subtotal		\$252,518
Earthquake Insurance	0.10%	\$253
Subtotal		\$252,770
Construction Contingency	25.00%	\$63,193
Subtotal		\$315,963
Bldg Risk, Liability Auto Ins.	2.00%	\$6,319
Subtotal		\$322,282
Performance Bond	1.00%	\$3,223
Payment Bond	1.00%	\$3,223
Subtotal		\$328,727
Engineering Fee	10.00%	\$18,880
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$354,608



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	00
Estimate Revision Date::	
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DFA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DFA													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,317.50	\$131.75 / Day	\$0.00	\$0.00	\$1,317.50
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
01210 - Lifting and hoisting equipment													
	Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10000 / Day	\$10,000.00	\$0.00	\$10,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,817.50		\$10,000.00	\$0.00	\$11,817.50
02 - SITE CONSTRUCTION													
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	175	Cuyd	\$0.71	\$124.25	\$0.00	\$0.00	\$1.17	\$205.11	\$1.88 / Cuyd	\$0.00	\$0.00	\$329.36
02340 - Bedding													
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	355	Sqyd	\$0.73	\$259.15	\$6.88	\$2,442.40	\$0.93	\$330.42	\$8.54 / Sqyd	\$0.00	\$0.00	\$3,031.97
02360 - Compaction													
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	175	Cuyd	\$1.76	\$308.00	\$0.00	\$0.00	\$0.47	\$81.41	\$2.22 / Cuyd	\$0.00	\$0.00	\$389.41
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	175	Cuyd	\$2.70	\$472.50	\$0.00	\$0.00	\$0.72	\$125.16	\$3.41 / Cuyd	\$0.00	\$0.00	\$597.66
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	175	Cuyd	\$2.70	\$472.50	\$0.00	\$0.00	\$0.72	\$125.16	\$3.41 / Cuyd	\$0.00	\$0.00	\$597.66
02450 - Excavating, trench													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	400	Cuyd	\$1.56	\$624.00	\$0.00	\$0.00	\$1.17	\$469.40	\$2.73 / Cuyd	\$0.00	\$0.00	\$1,093.40
02460 - Hauling													
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	175	Cuyd	\$5.41	\$946.75	\$0.00	\$0.00	\$9.45	\$1,654.14	\$14.86 / Cuyd	\$0.00	\$0.00	\$2,600.89
	Loading Trucks, F.E. Loader, 3 C.Y..	175	Cuyd	\$0.66	\$115.50	\$0.00	\$0.00	\$1.13	\$198.37	\$1.79 / Cuyd	\$0.00	\$0.00	\$313.87
02470 - Soil stabilization													
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	50	Sqyd	\$0.29	\$14.50	\$1.71	\$85.50	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$100.00
02480 - Rip-rap													
	Backing Material class #1	5	Cuyd	\$15.05	\$75.25	\$40.10	\$200.50	\$18.79	\$93.94	\$73.93 / Cuyd	\$0.00	\$0.00	\$369.69
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	25	Sqyd	\$51.39	\$1,284.75	\$119.00	\$2,975.00	\$18.78	\$469.50	\$189.16 / Sqyd	\$0.00	\$0.00	\$4,729.25
02490 - Erosion control													
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - Catch basins or manholes													
	Junction structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
	CB or manholes, conc, precast, 4' ID, 6' deep	2	Each	\$497.85	\$995.70	\$482.94	\$965.88	\$135.67	\$271.33	\$1116.45 / Each	\$0.00	\$0.00	\$2,232.91
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	2	Each	\$143.28	\$286.56	\$177.27	\$354.54	\$32.50	\$65.00	\$353.05 / Each	\$0.00	\$0.00	\$706.10
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	2	Each	\$146.95	\$293.90	\$179.54	\$359.08	\$50.00	\$100.00	\$376.49 / Each	\$0.00	\$0.00	\$752.98
	CB or manholes, inverts, single channel brick, concrete	2	Each	\$132.85	\$265.70	\$61.00	\$122.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$387.70
	Catch basins or manholes, steps, standard sizes, aluminum	6	Each	\$8.94	\$53.64	\$17.05	\$102.30	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$155.94
	SITE CONSTRUCTION Total				\$7,831.69		\$17,607.20		\$4,188.96		\$0.00	\$2,614.00	\$32,241.85

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8	Lnft	\$68.09	\$544.72	\$126.50	\$1,012.00	\$32.38	\$259.04	\$226.97 / Lnft	\$0.00	\$0.00	\$1,815.76
	Piping, water dist, conc pipe, gasket, 72" dia	1	Each	\$2.85	\$2.85	\$30.46	\$30.46	\$0.00	\$0.00	\$33.31 / Each	\$0.00	\$0.00	\$33.31
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	16	Lnft	\$42.56	\$680.96	\$55.75	\$892.00	\$20.21	\$323.36	\$118.52 / Lnft	\$0.00	\$0.00	\$1,896.32
	Piping, water dist, conc pipe, gasket, 48" dia	2	Each	\$2.85	\$5.70	\$7.68	\$15.36	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$21.06
15095 - Process Equipment													
	Process Equipment - Vortech Precast	1	Each	\$3,500.00	\$3,500.00	\$42,000.00	\$42,000.00	\$0.00	\$0.00	\$45,500 / Each	\$0.00	\$0.00	\$45,500.00
	MECHANICAL Total				\$4,734.23		\$43,949.82		\$582.40		\$0.00	\$0.00	\$49,266.45
	Project BLU Total				\$12,565.92		\$61,557.02		\$6,588.86		\$10,000.00	\$2,614.00	\$93,325.80
	Grand Total				\$12,565.92		\$61,557.02		\$6,588.86		\$10,000.00	\$2,614.00	\$93,325.80

Category	Percent	Amount
Labor	13.46%	\$12,566
Material	65.96%	\$61,557
Equipment	7.06%	\$6,589
Subcontractor	10.72%	\$10,000
Other	2.80%	\$2,614
Net Costs		\$93,326
Labor Mark-up	18.00%	\$2,262
Material Mark-up	15.00%	\$9,234
Subcontractor Mark-up	5.00%	\$500
Equipment Mark-up	15.00%	\$988
Sales tax (material)	7.75%	\$4,771
Sales tax (equipment)	7.75%	\$511
Material Shipping & Handling	2.50%	\$1,539
Worker's Travel/Subsistence	0.10%	\$13
Subtotal		\$113,142
Contractor General Conditions	12.00%	\$13,577
Subtotal		\$126,719
Earthquake Insurance	0.10%	\$127
Subtotal		\$126,846
Construction Contingency	25.00%	\$31,712
Subtotal		\$158,558
Bldg Risk, Liability Auto Ins.	2.00%	\$3,171
Subtotal		\$161,729
Performance Bond	1.00%	\$1,617
Payment Bond	1.00%	\$1,617
Subtotal		\$164,963
Engineering Fee	10.00%	\$9,333
Environmental Permitting (Lump Sum)	-	\$49,000
Total Estimate		\$223,296



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	00
Estimate Revision Date::	
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DQB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DQB													
01 - GENERAL REQUIREMENTS													
01200 - General equipment rental													
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,635.00		\$0.00	\$0.00	\$2,635.00
02 - SITE CONSTRUCTION													
02020 - Underground marking tape													
	Underground tape, detectable aluminum, 2"	25	Clf	\$2.34	\$58.50	\$3.06	\$76.50	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$135.00
02320 - Backfill													
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	3241	Cuyd	\$0.71	\$2,300.90	\$0.00	\$0.00	\$1.17	\$3,798.35	\$1.88 / Cuyd	\$0.00	\$0.00	\$6,099.25
02340 - Bedding													
	Bedding, crushed stone 3/4" to 1/2"	1000	Cuyd	\$7.64	\$7,640.00	\$20.73	\$20,730.00	\$1.73	\$1,730.77	\$30.1 / Cuyd	\$0.00	\$0.00	\$30,100.77
02360 - Compaction													
	Compaction, trench, walk behind, vib. plate, bedding	1846	Cuyd	\$1.76	\$3,248.08	\$0.00	\$0.00	\$0.47	\$858.48	\$2.22 / Cuyd	\$0.00	\$0.00	\$4,106.56
	Compaction, trench, walk behind, vib. plate, subgrade	278	Cuyd	\$1.76	\$488.93	\$0.00	\$0.00	\$0.47	\$129.22	\$2.22 / Cuyd	\$0.00	\$0.00	\$618.15
	Compaction, trench, walk behind, vib. plate, backfill	2917	Cuyd	\$1.76	\$5,133.39	\$0.00	\$0.00	\$0.47	\$1,356.77	\$2.22 / Cuyd	\$0.00	\$0.00	\$6,490.16
02450 - Excavating, trench													
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	5417	Cuyd	\$1.73	\$9,370.89	\$0.00	\$0.00	\$1.30	\$7,061.00	\$3.03 / Cuyd	\$0.00	\$0.00	\$16,431.89
02570 - Catch basins or manholes													
	Junction structure	1	Each	\$619.52	\$619.52	\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	5	Each	\$764.16	\$3,820.80	\$1,079.50	\$5,397.50	\$173.20	\$866.00	\$2016.86 / Each	\$0.00	\$0.00	\$10,084.30
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	5	Each	\$143.28	\$716.40	\$177.27	\$886.35	\$32.50	\$162.50	\$353.05 / Each	\$0.00	\$0.00	\$1,765.25
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	5	Each	\$146.95	\$734.75	\$179.54	\$897.70	\$50.00	\$250.00	\$376.49 / Each	\$0.00	\$0.00	\$1,882.45
	CB or manholes, inverts, single channel brick, concrete	5	Each	\$132.85	\$664.25	\$61.00	\$305.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$969.25
	Catch basins or manholes, steps, standard sizes, aluminum	15	Each	\$8.94	\$134.10	\$17.05	\$255.75	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$389.85
	SITE CONSTRUCTION Total				\$32,681.01		\$31,204.00		\$15,800.59		\$0.00	\$0.00	\$79,685.60
03 - CONCRETE													
03150 - Concrete, ready mix													
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$3,750.00	\$3,750.00
15 - MECHANICAL													
15090 - Pipe, drng&sewage, concret													
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	2500	Lnft	\$37.83	\$94,575.00	\$32.80	\$82,000.00	\$12.50	\$31,250.00	\$83.13 / Lnft	\$0.00	\$0.00	\$207,825.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	250	Lnft	\$37.83	\$9,457.50	\$32.80	\$8,200.00	\$12.50	\$3,125.00	\$83.13 / Lnft	\$0.00	\$0.00	\$20,782.50
	MECHANICAL Total				\$94,575.00		\$82,000.00		\$31,250.00		\$0.00	\$0.00	\$207,825.00
	Project DQB Total				\$127,256.01		\$113,204.00		\$49,685.59		\$0.00	\$3,750.00	\$293,895.60
	Grand Total				\$127,256.01		\$113,204.00		\$49,685.59		\$0.00	\$3,750.00	\$293,895.60

Category	Percent	Amount
Labor	43.30%	\$127,256
Material	38.52%	\$113,204
Equipment	16.91%	\$49,686
Subcontractor	0.00%	\$0
Other	1.28%	\$3,750
Net Costs		\$293,896
Labor Mark-up	18.00%	\$22,906
Material Mark-up	15.00%	\$16,981
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$7,453
Sales tax (material)	7.75%	\$8,773
Sales tax (equipment)	7.75%	\$3,851
Material Shipping & Handling	2.50%	\$2,830
Worker's Travel/Subsistence	0.10%	\$127
Subtotal		\$356,816
Contractor General Conditions	12.00%	\$42,818
Subtotal		\$399,634
Earthquake Insurance	0.10%	\$400
Subtotal		\$400,034
Construction Contingency	20.00%	\$80,007
Subtotal		\$480,041
Bldg Risk, Liability Auto Ins.	2.00%	\$9,601
Subtotal		\$489,642
Performance Bond	1.00%	\$4,896
Payment Bond	1.00%	\$4,896
Subtotal		\$499,434
Engineering Fee	10.00%	\$29,390
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$545,824



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	00
Estimate Revision Date::	
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DH

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DH													
02 - SITE CONSTRUCTION													
02060 - Site demolition													
	Site demo, Area vegetation removal	1	Acre	\$1,598.62	\$1,822.43	\$0.00	\$0.00	\$3,356.14	\$3,826.00	\$4954.76 / Acre	\$0.00	\$0.00	\$5,648.43
02330 - Backfill, structural													
	Backfill, side slope fill	405	Cuyd	\$0.52	\$210.38	\$0.00	\$0.00	\$1.20	\$486.27	\$1.72 / Cuyd	\$0.00	\$0.00	\$696.65
02360 - Compaction													
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	2750	Cuyd	\$2.70	\$7,425.00	\$0.00	\$0.00	\$0.72	\$1,966.87	\$3.41 / Cuyd	\$0.00	\$0.00	\$9,391.87
02410 - Excavation,bulk, scrapers													
	Excavation, self prop scraper, 14 CY 1/4 push dozer	2500	Cuyd	\$1.15	\$2,875.00	\$0.00	\$0.00	\$4.75	\$11,877.36	\$5.9 / Cuyd	\$0.00	\$0.00	\$14,752.36
02430 - Fill													
	Fill, spread fill, with dozer	2750	Cuyd	\$1.07	\$2,942.50	\$0.00	\$0.00	\$2.46	\$6,751.46	\$3.52 / Cuyd	\$0.00	\$0.00	\$9,693.96
02460 - Hauling													
	Backfill, dozer backfilling no compaction	2750	Cuyd	\$1.76	\$4,840.00	\$0.00	\$0.00	\$0.47	\$1,279.22	\$2.22 / Cuyd	\$0.00	\$0.00	\$6,119.22
02480 - Rip-rap													
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	200	Cuyd	\$67.91	\$13,582.00	\$42.49	\$8,498.00	\$24.56	\$4,912.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$26,992.00
02490 - Erosion control													
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.44	\$902.95	\$1.10	\$2,257.38	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$3,160.33
02600 - Base course													
	Area aggregate, crushed 3/4" stone, compacted to 9" deep	4148	Sqyd	\$0.73	\$3,028.04	\$6.88	\$28,538.24	\$0.90	\$3,733.00	\$8.5 / Sqyd	\$0.00	\$0.00	\$35,299.28
	SITE CONSTRUCTION Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10
	Project DH Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10
	Grand Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10

Category	Percent	Amount
Labor	33.67%	\$37,628
Material	35.16%	\$39,294
Equipment	31.17%	\$34,832
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$111,754
Labor Mark-up	18.00%	\$6,773
Material Mark-up	15.00%	\$5,894
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$5,225
Sales tax (material)	7.75%	\$3,045
Sales tax (equipment)	7.75%	\$2,699
Material Shipping & Handling	2.50%	\$982
Worker's Travel/Subsistence	0.10%	\$38
Subtotal		\$136,411
Contractor General Conditions	12.00%	\$16,369
Subtotal		\$152,780
Earthquake Insurance	0.10%	\$153
Subtotal		\$152,933
Construction Contingency	25.00%	\$38,233
Subtotal		\$191,166
Bldg Risk, Liability Auto Ins.	2.00%	\$3,823
Subtotal		\$194,989
Performance Bond	1.00%	\$1,950
Payment Bond	1.00%	\$1,950
Subtotal		\$198,889
Engineering Fee	10.00%	\$11,175
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$227,065



City of Carlsbad, Master Drainage Plan

Project Number::	128290
Client::	City of Carlsbad
Estimator(s)::	Jim Warford
Estimating Office::	Walnut Creek
Estimate Issue Number::	01
Estimate Original Issue Date::	3/14/2006
Estimate Revision Number::	00
Estimate Revision Date::	
BC Project Manager::	Chris Herencia
Estimate QA/QC Reviewer::	Butch Matthews
Estimate QA/QC Date::	

PROJECT LOCATION / PROCESS AREA

Project DZ

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DZ													
<i>02310 - Fine grade</i>													
	Fine grade under asphalt	333	Sqyd	\$0.77	\$256.41	\$0.00	\$0.00	\$0.16	\$54.62	\$0.93 / Sqyd	\$0.00	\$0.00	\$311.03
<i>02360 - Compaction</i>													
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	734	Cuyd	\$2.70	\$1,981.80	\$0.00	\$0.00	\$0.72	\$524.98	\$3.41 / Cuyd	\$0.00	\$0.00	\$2,506.78
<i>02450 - Excavating, trench</i>													
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2000	Cuyd	\$1.56	\$3,120.00	\$0.00	\$0.00	\$1.17	\$2,347.02	\$2.73 / Cuyd	\$0.00	\$0.00	\$5,467.02
<i>02480 - Rip-rap</i>													
	Rip-rap, energy dissipater	155	Sqyd	\$51.39	\$7,965.45	\$21.72	\$3,366.60	\$17.04	\$2,641.46	\$90.15 / Sqyd	\$0.00	\$0.00	\$13,973.51
<i>02490 - Erosion control</i>													
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.44	\$902.95	\$1.10	\$2,257.38	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$3,160.33
<i>02600 - Base course</i>													
	Area aggregate, crushed 3/4" stone, compacted to 9" deep	155	Sqyd	\$0.73	\$113.15	\$6.88	\$1,066.40	\$0.90	\$139.49	\$8.5 / Sqyd	\$0.00	\$0.00	\$1,319.04
<i>02840 - Landscaping</i>													
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$14,339.76		\$6,690.38		\$5,707.56		\$500.00	\$500.00	\$27,737.70
03 - CONCRETE													
<i>03150 - Concrete, ready mix</i>													
	10'x12' RCB Culvert (2)	375	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$281,250.00	\$281,250.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$288,750.00	\$288,750.00
	Project DZ Total				\$14,339.76		\$6,690.38		\$5,707.56		\$500.00	\$289,250.00	\$316,487.70
					\$14,339.76		\$6,690.38		\$5,707.56		\$500.00	\$289,250.00	\$316,487.70

Category	Percent	Amount
Labor	4.53%	\$14,340
Material	2.11%	\$6,690
Equipment	1.80%	\$5,708
Subcontractor	0.16%	\$500
Other	91.39%	\$289,250
Net Costs		\$316,488
Labor Mark-up	18.00%	\$2,581
Material Mark-up	15.00%	\$1,004
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$856
Sales tax (material)	7.75%	\$519
Sales tax (equipment)	7.75%	\$442
Material Shipping & Handling	2.50%	\$167
Worker's Travel/Subsistence	0.10%	\$14
Subtotal		\$322,096
Contractor General Conditions	12.00%	\$38,652
Subtotal		\$360,748
Earthquake Insurance	0.10%	\$361
Subtotal		\$361,108
Construction Contingency	20.00%	\$72,222
Subtotal		\$433,330
Bldg Risk, Liability Auto Ins.	2.00%	\$8,667
Subtotal		\$441,997
Performance Bond	1.00%	\$4,420
Payment Bond	1.00%	\$4,420
Subtotal		\$450,836
Engineering Fee	10.00%	\$31,649
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$492,485